

BULLETIN 1184B

33 PAGE PRINTER SET

(ASR, KSR AND RO)

PARTS



TELETYPE[®]
CORPORATION

5555 TOUHY AVENUE, SKOKIE, ILLINOIS

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| 574-123-800TC | 33 Call Control Unit (UCC) | *6 | December 1970 |
| 574-124-800TC | 33 Reader (UX) | *4 | December 1970 |
| 574-125-800TC | 33 Tape Punch (UPE) | *4 | December 1970 |
| 574-126-800TC | 33 Cover and Table | *5 | December 1970 |

*Indicates revised sections

33 KEYBOARD (UK)

PARTS

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**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl.

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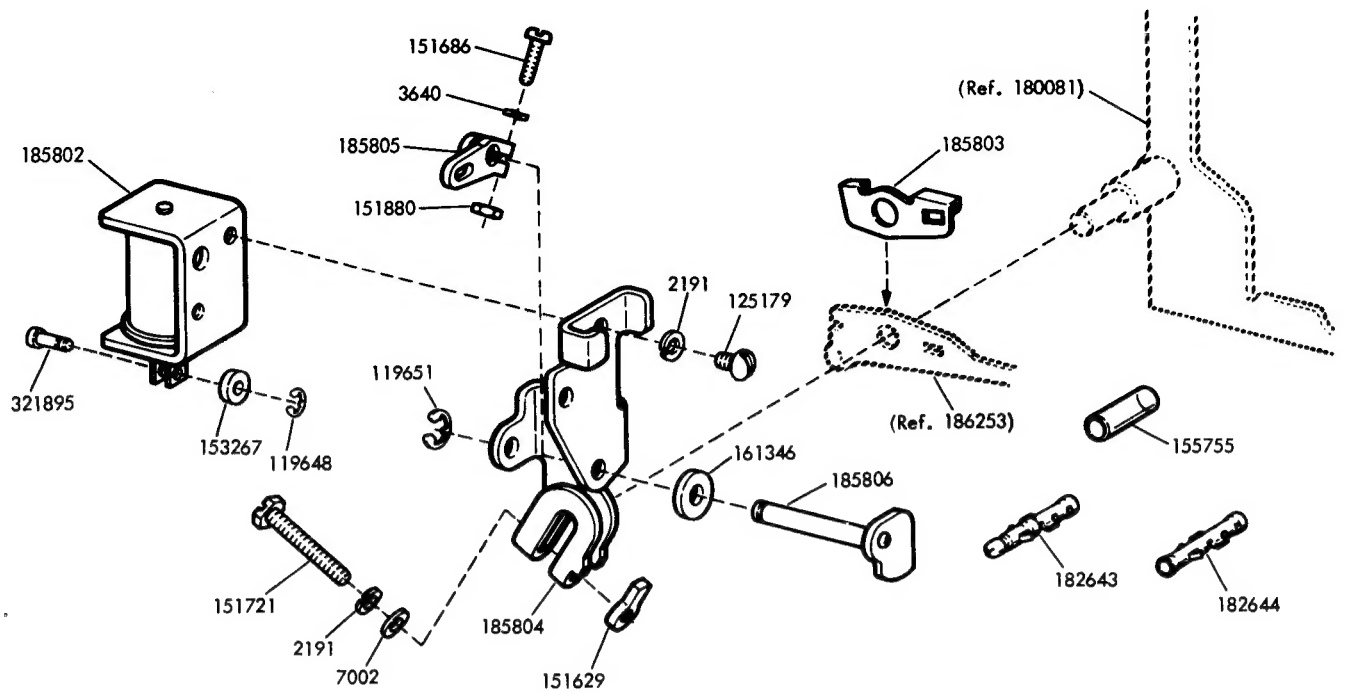


FIGURE 2. 185801 MODIFICATION KIT TO PROVIDE LOCKING FOR KEYBOARD

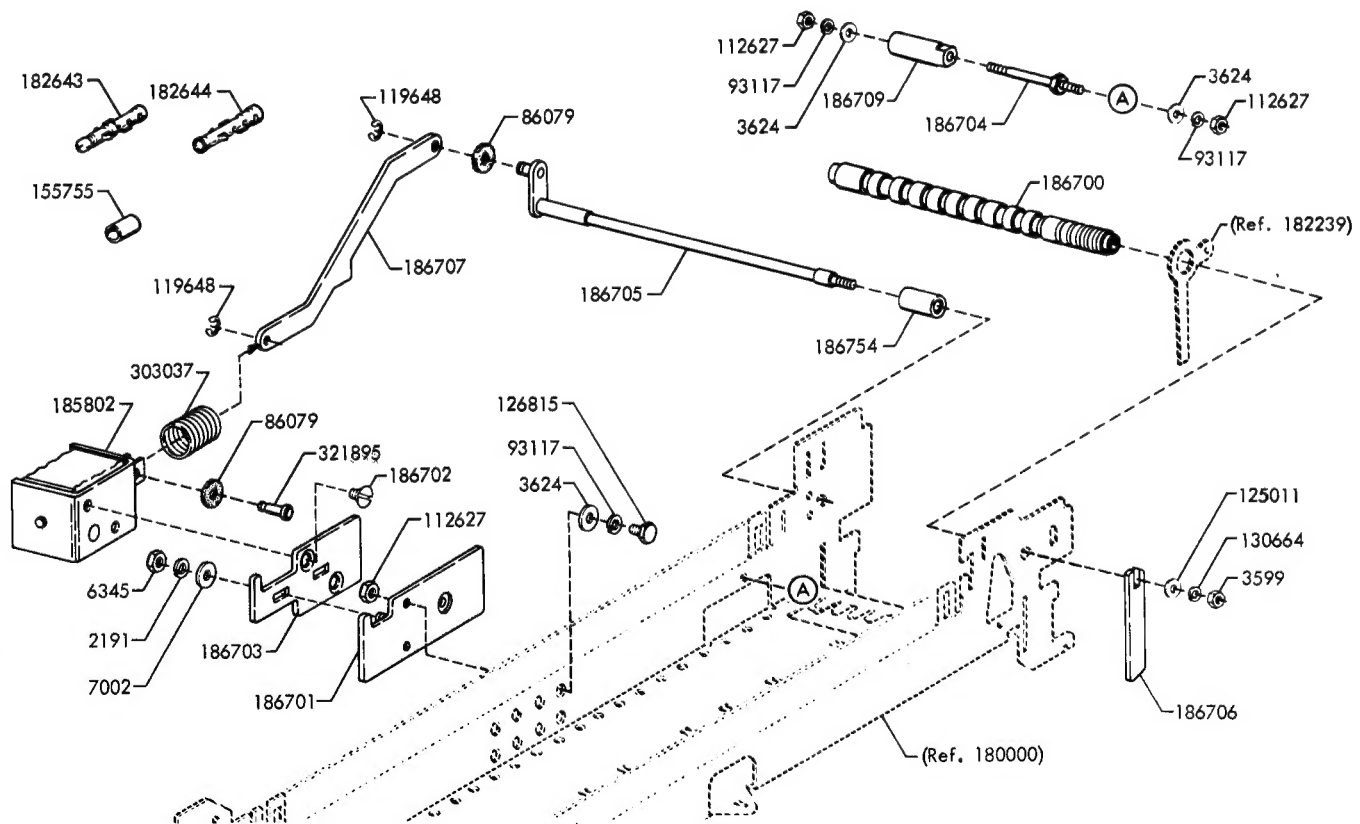


FIGURE 3. 186752 MODIFICATION KIT TO PROVIDE LOCKING FOR KEYBOARD

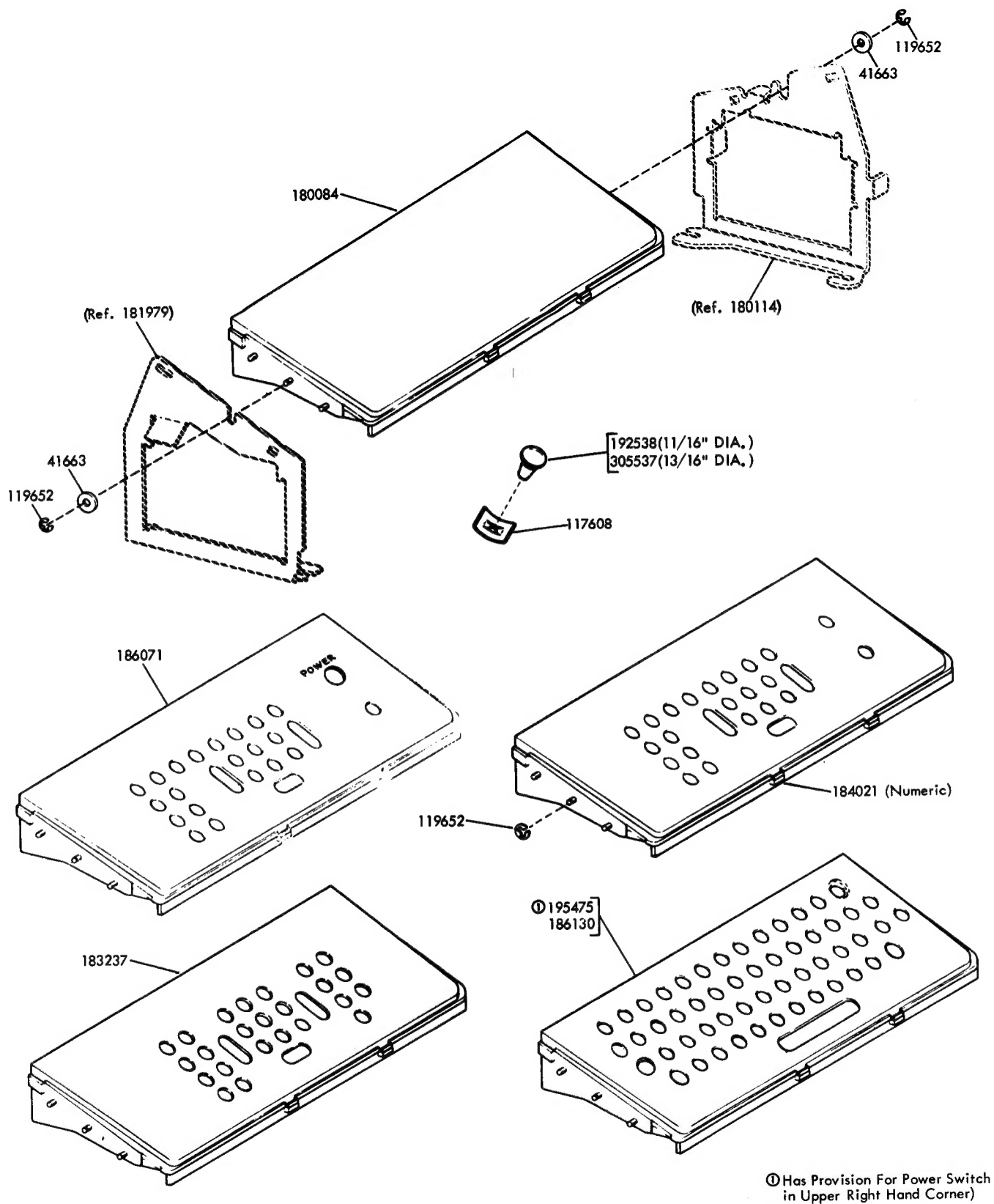
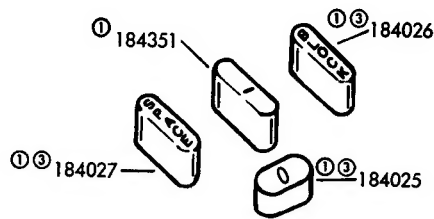
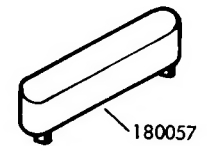


FIGURE 4. KEYBOARD COVERS



Typical
Keytop



| Keytop Description | | | Keytop Description | | | Keytop Description | | |
|--------------------|-------|-------------|--------------------|-----------------|-------------|--------------------|-------|-------------|
| UNSHIFT | SHIFT | Part Number | UNSHIFT | SHIFT | Part Number | UNSHIFT | SHIFT | Part Number |
| A | | 180181 | P | @ | 180180 | 8 | | ①③ 184341 |
| A | SOM | *183891 | Q | | 180171 | 9 |) | 180168 |
| A | | ①③ 184343 | Q | X ON | *183888 | 9 | | ①③ 184342 |
| B | | 180194 | Q | X-ON | 184869 | 0 | | 180169 |
| B | | ①③ 184344 | Q | RLF | 185160 | | | |
| C | | 180192 | R | TAPE | 180174 | ∅ | | 180374 |
| C | | ①③ 184345 | R | | 180260 | - | = | 180170 |
| C | ETX | 185165 | R | FS | 185161 | , | < | 180197 |
| D | EOT | 180183 | S | | 180282 | . | > | 180198 |
| D | | 180278 | S | X OFF | 180182 | ; | + | 180199 |
| D | | ①③ 184346 | S | X OFF | *183892 | / | ? | 180200 |
| E | WRU | 180173 | S | | ③ 185394 | : | * | 180205 |
| E | | 180259 | T | TAPE | 180175 | (No Symbol) | | ① 180299 |
| E | WRU | *183889 | T | | 180261 | - | | 180336 |
| F | RU | 180184 | T | PR | 185162 | | * | 180335 |
| F | | 180273 | T | | ③ 185395 | , | . | 180418 |
| G | BELL | 180185 | U | | 180177 | / | ■ | 180419 |
| G | | 180274 | V | | 180193 | | | 184895 |
| G | BELL | *183890 | W | | 180172 | RUB OUT | | ①③ 180201 |
| H | | 180186 | X | | 180191 | RETURN | | ①③ 180202 |
| H | BS | 185163 | X | | ③ 185396 | LINE FEED | | ①③ 180203 |
| I | TAB | 180178 | Y | | 180176 | HERE IS | | 180206 |
| I | | 180262 | Z | | 180190 | BREAK | | 180207 |
| J | | 180187 | 1 | ! | 180160 | REPT | | ①③ 180208 |
| K | VT | 180188 | 1 | | ①③ 184334 | ALT MODE | | 180257 |
| K | | 180280 | 1 | | 180264 | ESC | | 180382 |
| K | □ | 180383 | 2 | " | 180161 | EOT | | ①③ 180440 |
| K | I | 185090 | 2 | | ①③ 184335 | DIV | | ① 180441 |
| L | FORM | 180189 | 3 | # | 180162 | STORE | | ① 180442 |
| L | | 180281 | 3 | | ①③ 184336 | TYPE ORD | | ① 180443 |
| L | \ | 180385 | 4 | \$ | 180163 | SECT | | ① 180444 |
| L | FORM | 185164 | 4 | | ①③ 184337 | SHIFT | | 180061 |
| M | | 180196 | 5 | % | 180164 | CTRL | | 181253 |
| M | □ | 180384 | 5 | | ①③ 184338 | CTRL | | ② 181971 |
| M | I | 185093 | 6 | & | 180165 | FS | | ① 184815 |
| N | ⬆ | 180195 | 6 | | ①③ 184339 | GS | | ① 184816 |
| N | BLK | 185092 | 7 | ' | 180166 | RS | | ① 184817 |
| N | ^ | 185150 | 7 | | ①③ 184340 | US | | ① 184818 |
| O | ⬅ | 180179 | 8 | (| 180167 | CLR KYBD | | 184734 |
| O | └ | 185089 | | | | CTRL | | 185159 |
| | | | | | | TAB | | 180373 |

NOTE:

All Keytops are gray with white characters except as noted.

*Gray Keytops with yellow characters.

① Used on Numeric Keyboard.

② Used with parity control.

③ Used on Numeric Self-Contained Keyboard

FIGURE 5. KEYTOPS

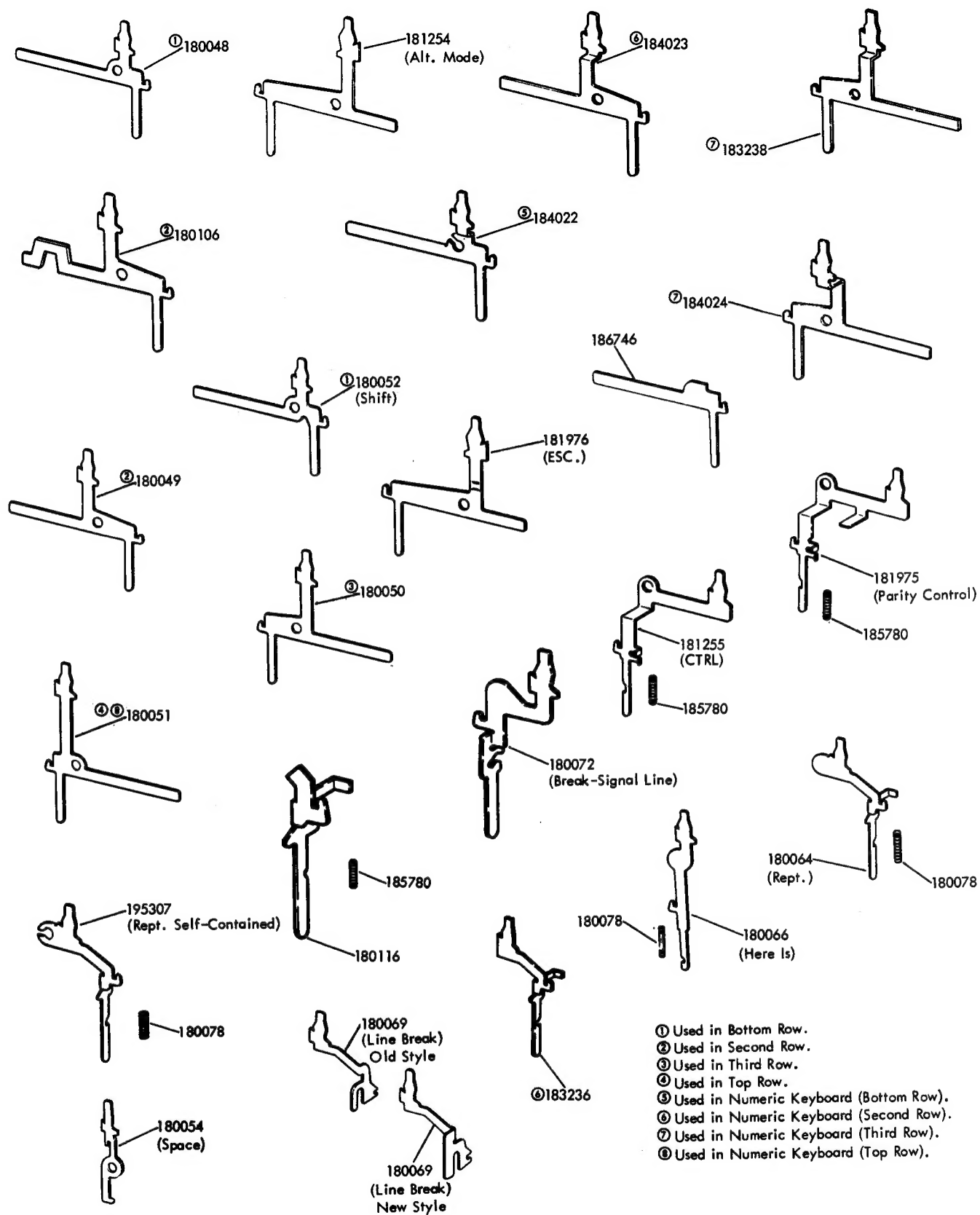


FIGURE 6. KEYLEVERS

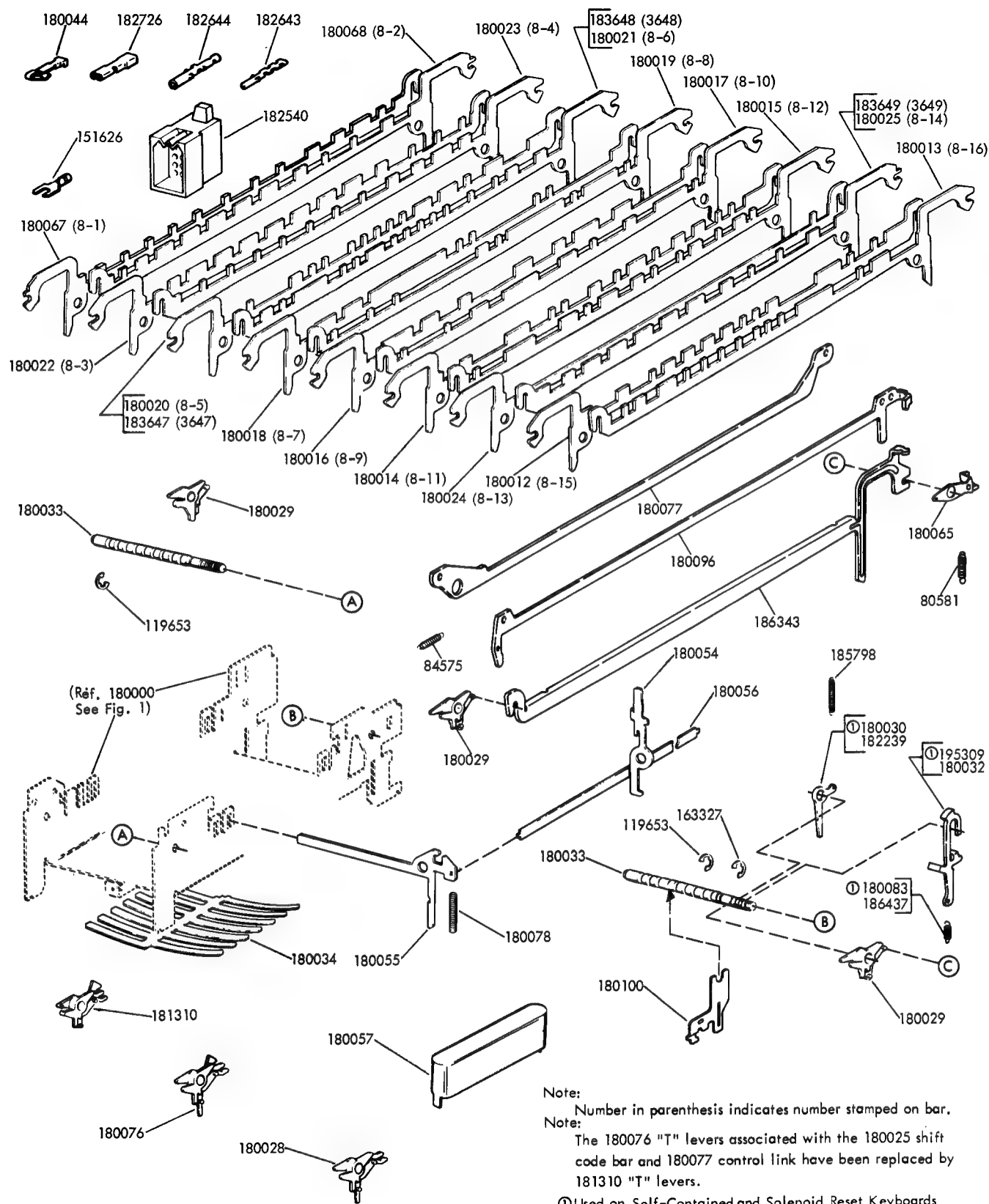


FIGURE 7. CODE BAR MECHANISM

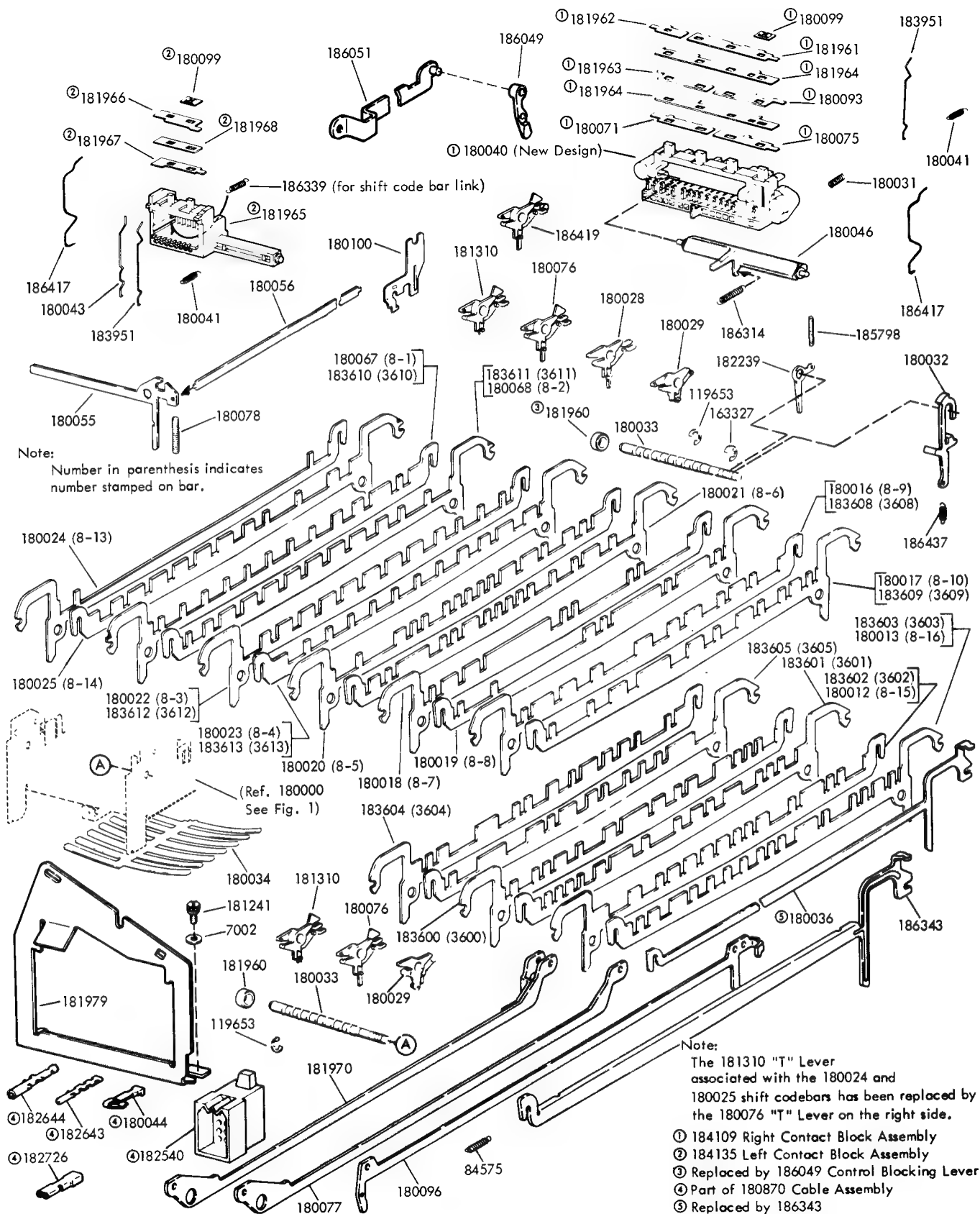


FIGURE 8. CODE BAR MECHANISM FOR UNITS EQUIPPED WITH EVEN PARITY

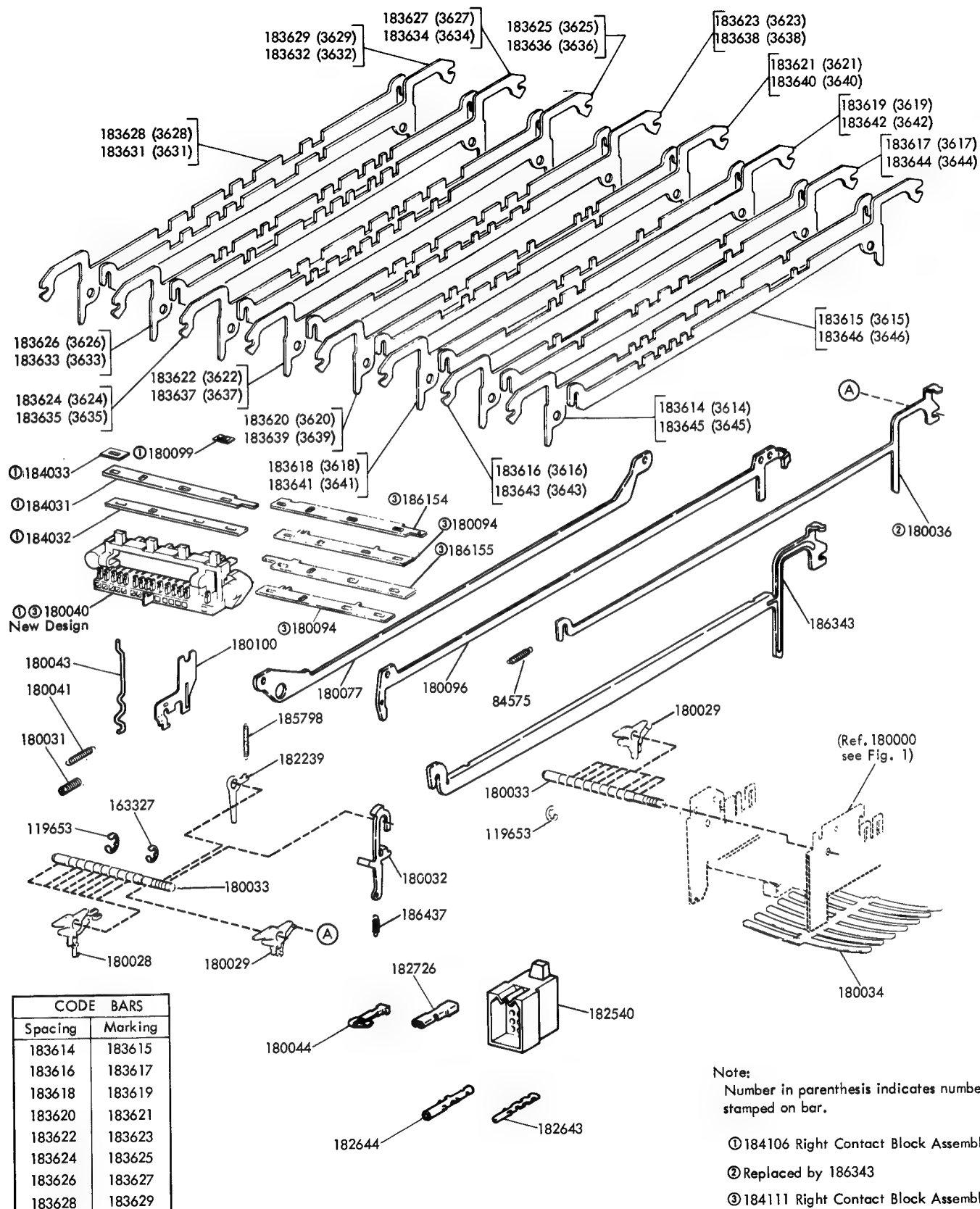


FIGURE 9. CODEBAR MECHANISM FOR NUMERIC KEYBOARD

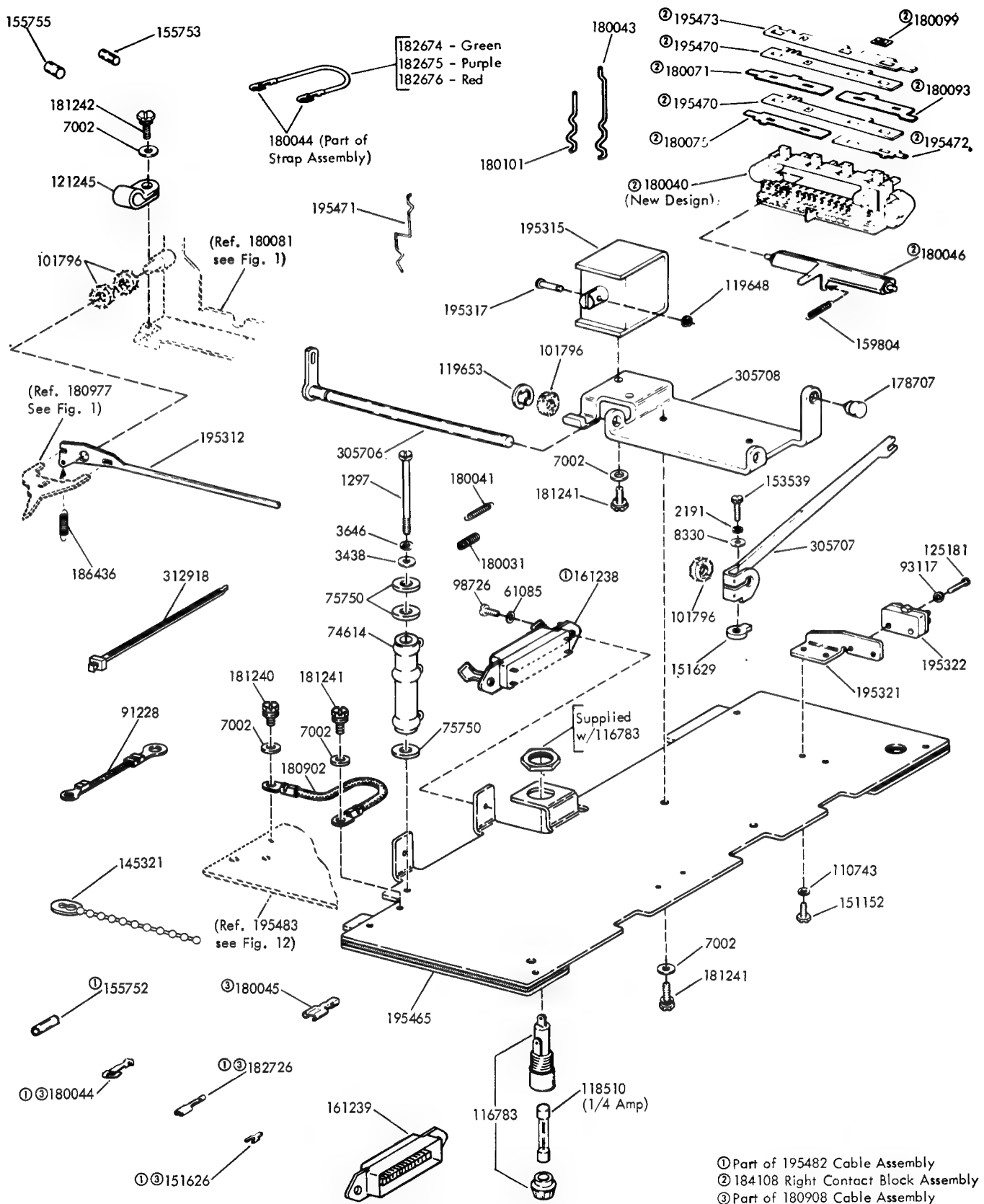


FIGURE 10. RESET MECHANISM FOR SELF-CONTAINED AND SOLENOID RESET KEYBOARDS

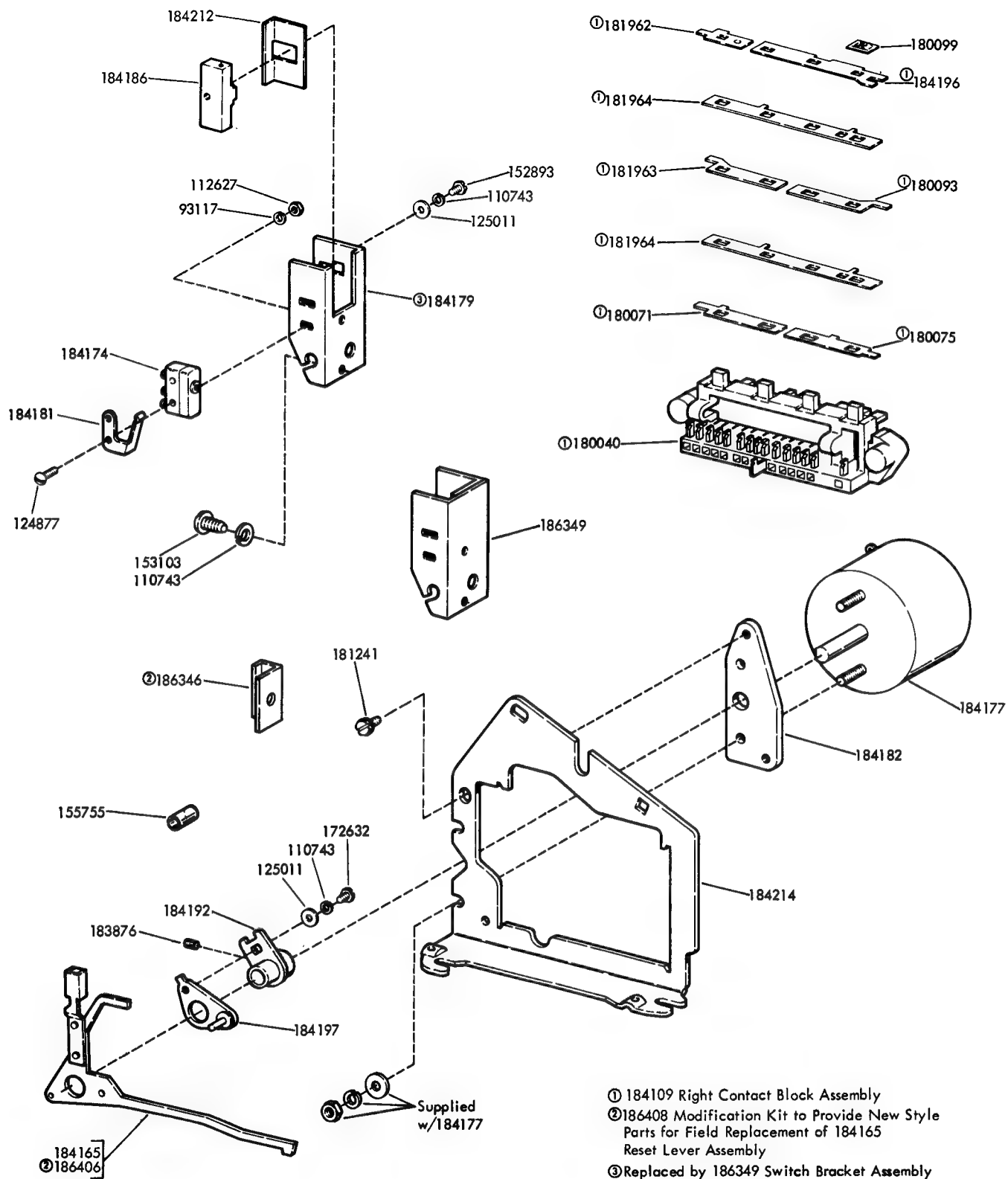


FIGURE 11. RESET MECHANISM FOR EVEN PARITY KEYBOARD

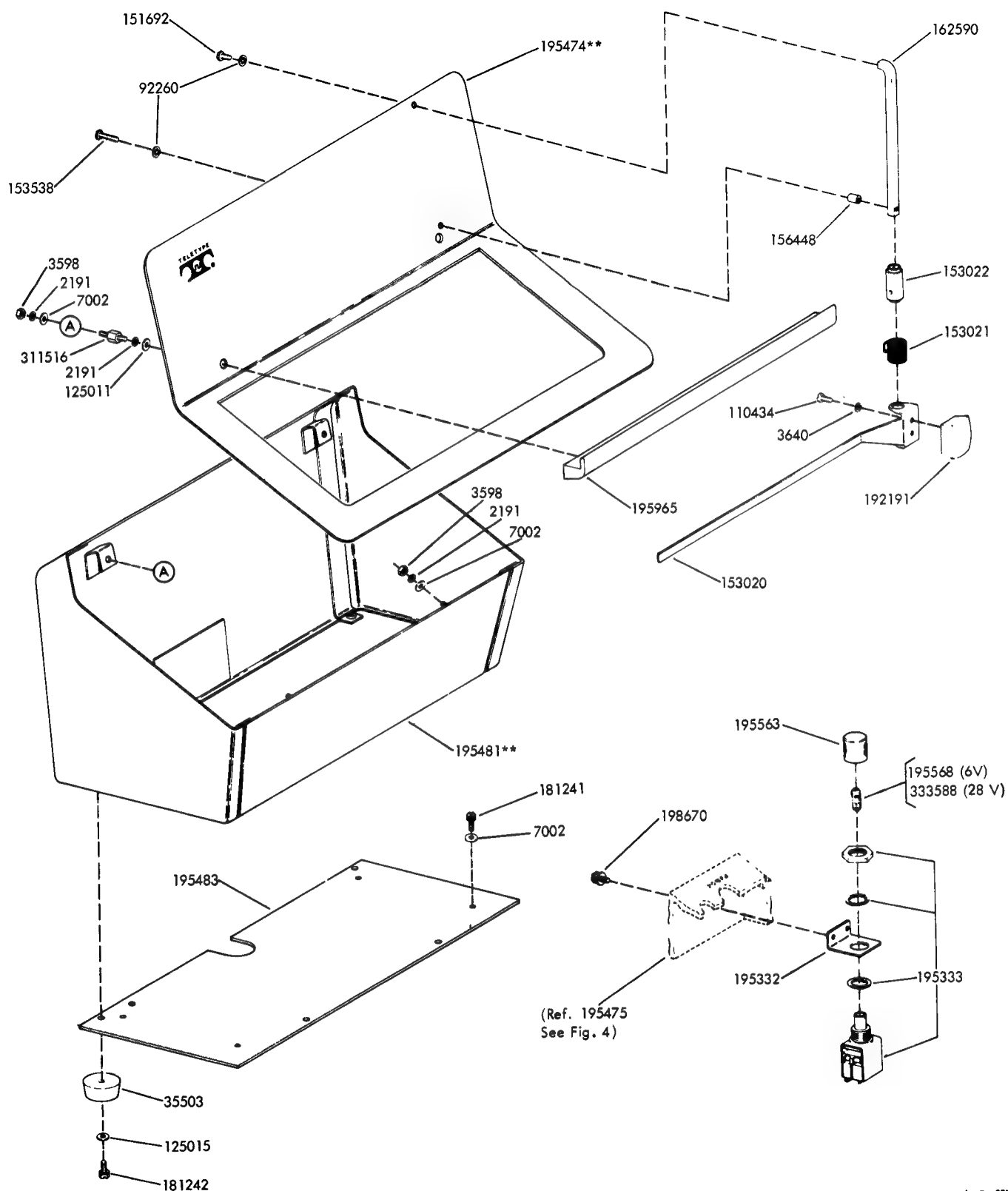


FIGURE 12. COVER FOR SELF-CONTAINED AND SOLENOID RESET KEYBOARDS

NUMERICAL INDEX

| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|-------------|-----------------------------|-------------|--|-------------|---------------------------------|
| 1297 | Screw, 6-40 x 2-7/16 Fil 10 | 151692 | Screw, 6-40 x 3/16 Fil 12 | 180033 | Shaft 7,8,9 |
| 2191 | Lockwasher 3,10,12 | 151721 | Screw, 6-40 x 3/4 Hex 3 | 180034 | Spring, Flat 7,8,9 |
| 3438 | Washer, Flat 10 | 151880 | Nut, 4-40 Hex 3 | 180036 | Bar, Universal Code 8,9 |
| 3598 | Nut, 6-40 Hex 12 | 152893 | Screw, 4040 x 1/4 Hex 11 | 180040 | Block, Contact 2,8,9,10, 11 |
| 3599 | Nut, 4-40 Hex 3 | 153020 | Guide, Line 12 | 180041 | Spring 2,8,9,10 |
| 3624 | Washer, Flat 2,3 | 153021 | Spring, Torsion 12 | 180043 | Wire, Contact 2,8,9,10 |
| 3640 | Lockwasher 3,12 | 153022 | Bushing 12 | 180044 | Terminal, Tab Type 2,7,8, 9,10 |
| 3646 | Lockwasher 10 | 153103 | Screw, 4-40 Self-Tapping 11 | 180045 | Terminal, Tab Type 10 |
| 6345 | Nut, 6-32 Hex 3 | 153267 | Washer, Felt 3 | 180046 | Bail, Contact Reset 2,8, 10 |
| 7002 | Washer, Flat 3,8,10,12 | 153538 | Screw, 6-40 x 7/16 Hex 12 | 180048 | Keylever 6 |
| 8330 | Washer, Flat 10 | 153539 | Screw, 6-40 x 11/16 Hex 10 | 180049 | Keylever 6 |
| 35503 | Foot, Rubber 12 | 155752 | Sleeve, 5/64 ID x 1/2 Lg Insulating 10 | 180050 | Keylever 6 |
| 41663 | Washer, Flat 4 | 155753 | Sleeve, 1/8 ID x 1/2 Lg Insulating 10 | 180051 | Keylever 6 |
| 61085 | Lockwasher 10 | 155755 | Sleeve, 11/64 ID x 5/8 Lg Insulating 3,10,11 | 180052 | Keylever, Shift 6 |
| 74614 | Resistor, 2,600 Ohm 10 | 156448 | Bushing 12 | 180054 | Keylever, Spacebar 6,7 |
| 75750 | Washer, Insulating 10 | 156633 | Washer, Felt 2 | 180055 | Keylever, Spacebar 7,8 |
| 80581 | Spring 7 | 159804 | Spring 10 | 180056 | Link, Space 7,8 |
| 84575 | Spring 7,8,9 | 161238 | Connector, 36 Pt Receptacle 10 | 180057 | Spacebar 5,7 |
| 86079 | Washer, Felt 3 | 161239 | Connector, 36 Pt Plug 10 | 180061 | Keytop 5 |
| 91228 | Strap, 2-1/2" Braided 10 | 161346 | Washer, Felt 3 | 180064 | Keylever, Repeat 6 |
| 91229 | Strap, 2" Braided 2 | 162590 | Shaft 12 | 180065 | Lever, Link Break 7 |
| 92260 | Lockwasher 12 | 163327 | Ring, Retaining 7,8,9 | 180066 | Keylever 6 |
| 93117 | Lockwasher 3,10,11 | 172632 | Screw, 4-40 x 3/16 Hex 11 | 180067 | Bar, No. 7 Rear Code 7,8 |
| 98726 | Screw, 3-48 x 1/4 Fil 10 | 178707 | Bumper, Rubber 10 | 180068 | Bar, No. 7 Front Code 7,8 |
| 100337 | Spring 2 | 180000 | Frame, Keyboard 2,3,7,8,9 | 180069 | Keylever, Line Break 6 |
| 101796 | Washer, Felt 10 | 180012 | Codebar No. 1 Rear 7,8 | 180071 | Terminal 2,8,10,11 |
| 110434 | Screw, 4-40 x 3/16 Fil 12 | 180013 | Codebar No. 1 Front 7,8 | 180072 | Keylever, Line Break 6 |
| 110743 | Lockwasher 10,11 | 180014 | Codebar No. 2 Rear 7 | 180075 | Terminal, Line Break 2,8, 10,11 |
| 112627 | Nut, 2-56 Hex 3,11 | 180015 | Codebar No. 2 Front 7 | 180076 | Lever, No. 5 Pulse 7,8 |
| 116783 | Holder, Fuse 10 | 180016 | Codebar No. 3 Rear 7,8 | 180077 | Link 7,8,9 |
| 117608 | Nut, Speed 4 | 180017 | Codebar No. 3 Front 7,8 | 180078 | Spring, Compression 6,7,8 |
| 118510 | Fuse, 1/4 Amp 10 | 180018 | Codebar No. 4 Rear 7,8 | 180081 | Bracket, Right Keyboard 2,3,10 |
| 119648 | Ring, Retaining 3,10 | 180019 | Codebar No. 4 Front 7,8 | 180082 | Bracket, Left Keyboard 2 |
| 119651 | Ring, Retaining 3 | 180020 | Codebar No. 5 Rear 7,8 | 180083 | Spring 7 |
| 119652 | Ring, Retaining 4 | 180021 | Codebar No. 5 Front 7,8 | 180084 | Cover, Keyboard 4 |
| 119653 | Ring, Retaining 7,8,9,10 | 180022 | Codebar No. 6 Rear 7,8 | 180090 | Terminal, Common 2 |
| 121245 | Clamp, 5/16 ID Cable 10 | 180023 | Codebar No. 5 Front 7,8 | 180093 | Terminal 2,8,10,11 |
| 124877 | Screw, 2-56 x 1/2 Rd 11 | 180024 | Codebar No. 5 Rear 7,8 | 180094 | Insulator 2,9 |
| 125011 | Washer, Flat 3,11,12 | 180025 | Codebar No. 5 Front 7,8 | 180096 | Link 7,8,9 |
| 125015 | Washer, Flat 12 | 180028 | Lever 7,8,9 | 180099 | Fastener 2,8,9,10,11 |
| 125179 | Screw, 6-32 x 3/16 Rd 3 | 180029 | Lever 7,8,9 | 180100 | Guide 7,8,9 |
| 125181 | Screw, 2-56 x 3/8 Fil 10 | 180030 | Lever, Latch 7 | 180101 | Wire, Contact 2,10 |
| 126815 | Screw, 2-56 x 15/64 Hex 3 | 180031 | Spring, Compression 2,8, 9,10 | 180106 | Keylever 6 |
| 130664 | Lockwasher 3 | 180032 | Lever, Non-Repeat 7,8,9 | 180107 | Detent 2 |
| 145321 | Tie, Cable 10 | | | 180114 | Bracket, Left Keyboard 2,4 |
| 151152 | Screw, 4-40 x 3/16 Hex 10 | | | | |
| 151626 | Terminal 7,10 | | | | |
| 151629 | Nut, 6-40 Lug 3,10 | | | | |
| 151686 | Screw, 6-40 x 3/8 Fil 3 | | | | |

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| 180115 | Modification Kit 2 | 180259 | Keytop 5 | 181968 | Insulator 8 |
| 180116 | Keylever 6 | 180260 | Keytop 5 | 181970 | Link w/Extension 8 |
| 180160 | Keytop 5 | 180261 | Keytop 5 | 181971 | Keytop 5 |
| 180161 | Keytop 5 | 180262 | Keytop 5 | 181975 | Keylever 6 |
| 180162 | Keytop 5 | 180264 | Keytop 5 | 181976 | Keylever 6 |
| 180163 | Keytop 5 | 180273 | Keytop 5 | 181979 | Bracket, Left Keyboard 2,4,8 |
| 180164 | Keytop 5 | 180274 | Keytop 5 | 182239 | Latchlever 3,7,8,9 |
| 180165 | Keytop 5 | 180278 | Keytop 5 | 182540 | Connector, 15 Pt Plug Type 7,8,9 |
| 180166 | Keytop 5 | 180280 | Keytop 5 | 182643 | Terminal, Plug Type 3,7,8,9 |
| 180167 | Keytop 5 | 180281 | Keytop 5 | 182644 | Terminal, Receptacle Type 3,7,8,9 |
| 180168 | Keytop 5 | 180282 | Keytop 5 | 182674 | Jumper, 2-1/4" Green 2,10 |
| 180169 | Keytop 5 | 180299 | Keytop 5 | 182675 | Jumper, 2-1/4" Purple 2,10 |
| 180170 | Keytop 5 | 180335 | Keytop 5 | 182676 | Jumper, 2-1/4" Red 2,10 |
| 180171 | Keytop 5 | 180336 | Keytop 5 | 182726 | Terminal, Receptacle Type 7,8,9,10 |
| 180172 | Keytop 5 | 180373 | Keytop 5 | 183236 | Keylever, Repeat 6 |
| 180173 | Keytop 5 | 180374 | Keytop 5 | 183237 | Cover, Keyboard 4 |
| 180174 | Keytop 5 | 180382 | Keytop 5 | 183238 | Keylever 6 |
| 180175 | Keytop 5 | 180383 | Keytop 5 | 183600 | Codebar 8 |
| 180176 | Keytop 5 | 180384 | Keytop 5 | 183601 | Codebar 8 |
| 180177 | Keytop 5 | 180385 | Keytop 5 | 183602 | Codebar 8 |
| 180178 | Keytop 5 | 180418 | Keytop 5 | 183603 | Codebar 8 |
| 180179 | Keytop 5 | 180419 | Keytop 5 | 183604 | Codebar 8 |
| 180180 | Keytop 5 | 180440 | Keytop 5 | 183605 | Codebar 8 |
| 180181 | Keytop 5 | 180441 | Keytop 5 | 183608 | Codebar 8 |
| 180182 | Keytop 5 | 180442 | Keytop 5 | 183609 | Codebar 8 |
| 180183 | Keytop 5 | 180443 | Keytop 5 | 183610 | Codebar 8 |
| 180184 | Keytop 5 | 180444 | Keytop 5 | 183611 | Codebar 8 |
| 180185 | Keytop 5 | 180870 | Cable Assembly 8 | 183612 | Codebar 8 |
| 180186 | Keytop 5 | 180902 | Jumper, 3-1/2 In. Braided 10 | 183613 | Codebar 8 |
| 180187 | Keytop 5 | 180908 | Cable Assembly 10 | 183614 | Codebar 9 |
| 180188 | Keytop 5 | 180977 | Plate w/Stud 2,10 | 183615 | Codebar 9 |
| 180189 | Keytop 5 | 181240 | Screw, w/Lockwasher 6-40 x 3/16 Hex | 183616 | Codebar 9 |
| 180190 | Keytop 5 | 181241 | Screw, w/Lockwasher, 6-40 x 1/4 Hex 8,10,11,12 | 183617 | Codebar 9 |
| 180191 | Keytop 5 | 181242 | Screw, w/Lockwasher, 6-40 x 5/16 Hex 10,12 | 183618 | Codebar 9 |
| 180192 | Keytop 5 | 181253 | Keytop 5 | 183619 | Codebar 9 |
| 180193 | Keytop 5 | 181254 | Keylever 6 | 183620 | Codebar 9 |
| 180194 | Keytop 5 | 181255 | Keylever 6 | 183621 | Codebar 9 |
| 180195 | Keytop 5 | 181310 | Lever 7,8 | 183622 | Codebar 9 |
| 180196 | Keytop 5 | 181860 | Spacer, .144" Thk 8 | 183623 | Codebar 9 |
| 180197 | Keytop 5 | 181861 | Terminal 8 | 183624 | Codebar 9 |
| 180198 | Keytop 5 | 181960 | Spacer, .144" Thk 8 | 183625 | Codebar 9 |
| 180199 | Keytop 5 | 181962 | Terminal 8,11 | 183626 | Codebar 9 |
| 180200 | Keytop 5 | 181963 | Terminal, Parity 8,11 | 183627 | Codebar 9 |
| 180201 | Keytop 5 | 181964 | Insulator 8,11 | 183628 | Codebar 9 |
| 180202 | Keytop 5 | 181965 | Block, Contact 8 | | |
| 180203 | Keytop 5 | 181966 | Terminal 8 | | |
| 180205 | Keytop 5 | 181967 | Terminal 8 | | |
| 180206 | Keytop 5 | | | | |
| 180207 | Keytop 5 | | | | |
| 180208 | Keytop 5 | | | | |
| 180257 | Keytop 5 | | | | |

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| 183629 | Codebar 9 | 184177 | Solenoid, Rotary 11 | 185802 | Solenoid 3 |
| 183631 | Codebar 9 | 184179 | Bracket 11 | 185803 | Clip 3 |
| 183632 | Codebar 9 | 184181 | Actuator 11 | 185804 | Bracket 3 |
| 183633 | Codebar 9 | 184182 | Plate 11 | 185805 | Lever 3 |
| 183634 | Codebar 9 | 184186 | Switch, Reed 11 | 185806 | Shaft 3 |
| 183635 | Codebar 9 | 184192 | Plate w/Hub 11 | 185871 | Screw w/Lockwasher, 8-32 x 3/8 Hex 2 |
| 183636 | Codebar 9 | 184196 | Terminal 11 | 186049 | Lever 8 |
| 183637 | Codebar 9 | 184197 | Plate w/Stud 11 | 186051 | Link 8 |
| 183638 | Codebar 9 | 184212 | Guide 11 | 186071 | Cover 4 |
| 183639 | Codebar 9 | 184214 | Bracket, Right 11 | 186130 | Cover 4 |
| 183640 | Codebar 9 | 184334 | Keytop 5 | 186154 | Terminal 9 |
| 183641 | Codebar 9 | 184335 | Keytop 5 | 186155 | Terminal 9 |
| 183642 | Codebar 9 | 184336 | Keytop 5 | 186253 | Lever w/Hub 2,3 |
| 183643 | Codebar 9 | 184337 | Keytop 5 | 186314 | Spring 2,8 |
| 183644 | Codebar 9 | 184338 | Keytop 5 | 186339 | Spring 8 |
| 183645 | Codebar 9 | 184339 | Keytop 5 | 186343 | Codebar 7,8,9 |
| 183646 | Codebar 9 | 184340 | Keytop 5 | 186346 | Shield, Magnetic 11 |
| 183647 | Codebar 7 | 184341 | Keytop 5 | 186349 | Bracket 11 |
| 183648 | Codebar 7 | 184342 | Keytop 5 | 186406 | Lever, Reset 11 |
| 183649 | Codebar 7 | 184343 | Keytop 5 | 186408 | Modification Kit 11 |
| 183876 | Screw, 6-32 Set 11 | 184344 | Keytop 5 | 186417 | Wire, Contact 8 |
| 183888 | Keytop 5 | 184345 | Keytop 5 | 186419 | Lever 8 |
| 183889 | Keytop 5 | 184346 | Keytop 5 | 186435 | Spring 2 |
| 183890 | Keytop 5 | 184351 | Keytop 5 | 186436 | Spring 10 |
| 183891 | Keytop 5 | 184734 | Keytop 5 | 186437 | Spring 7,8,9 |
| 183892 | Keytop 5 | 184815 | Keytop 5 | 186700 | Shaft 3 |
| 183951 | Wire, Contact 2,8 | 184816 | Keytop 5 | 186701 | Plate 3 |
| 184021 | Cover, Keyboard 4 | 184817 | Keytop 5 | 186702 | Screw, 6-32 Spl 3 |
| 184022 | Keylever 6 | 184818 | Keytop 5 | 186703 | Plate, Top Mounting 3 |
| 184023 | Keylever 6 | 184869 | Keytop 5 | 186704 | Stud 3 |
| 184024 | Keylever 6 | 184895 | Keytop 5 | 186705 | Shaft 3 |
| 184025 | Keytop 5 | 185089 | Keytop 5 | 186706 | Cam, Trip 3 |
| 184026 | Keytop 5 | 185090 | Keytop 5 | 186707 | Lever 3 |
| 184027 | Keytop 5 | 185092 | Keytop 5 | 186709 | Bushing, Eccentric 3 |
| 184031 | Terminal 9 | 185093 | Keytop 5 | 186746 | Lever 6 |
| 184032 | Insulator, .031" Thk 9 | 185150 | Keytop 5 | 186752 | Modification Kit 1,3 |
| 184033 | Spacer, .035" Thk 9 | 185159 | Keytop 5 | 186754 | Bushing 3 |
| 184106 | Block Assembly, Right Contact 9 | 185160 | Keytop 5 | 192191 | Knob 12 |
| 184107 | Block Assembly, Right Contact 2 | 185161 | Keytop 5 | 192538 | Plug, Button 4 |
| 184108 | Block Assembly, Right Contact 10 | 185162 | Keytop 5 | 195307 | Keylever, Repeat 6 |
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| 184111 | Block Assembly, Right Contact 9 | 185164 | Keytop 5 | 195312 | Lever, Reset 10 |
| 184135 | Block Assembly, Left Contact 8 | 185165 | Keytop 5 | 195315 | Solenoid w/Plunger 10 |
| 184165 | Lever, Reset 11 | 185394 | Keytop 5 | 195317 | Pin 10 |
| 184174 | Switch, SP-DT 11 | 185395 | Keytop 5 | 195321 | Bracket, Switch 10 |
| | | 185396 | Keytop 5 | 195322 | Switch 10 |
| | | 185619 | Frame, Left Keyboard 2 | 195332 | Bracket, Power Switch 12 |
| | | 185620 | Frame, Right Keyboard 2 | 195333 | Switch, Pushbutton 12 |
| | | 185780 | Spring, Compression 6 | 195465 | Plate, Mounting 10 |
| | | 185798 | Spring 7,8,9 | 195470 | Insulator, .031" Thk 10 |
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| 195472 | Terminal 10 | 195563 | Lens, Red Pushbutton 12 | 305706 | Shaft w/Link 10 |
| 195473 | Terminal, Common 10 | 195568 | Lamp, 6 V 12 | 305707 | Arm, Reset 10 |
| 195474** | Panel, Top 12 | 195965 | Tray, Copyholder 12 | 305708 | Bracket, Solenoid 10 |
| 195475 | Cover, Keyboard 4,12 | 198670 | Screw w/Lockwasher, 6-40 x 5/16 Hex 12 | 311516 | Post 12 |
| 195481** | Cover | | | 312918 | Strap 10 |
| 195482 | Cable Assembly 10 | 303037 | Spring, Compression 3 | 321895 | Post 3 |
| | | | | 333588 | Lamp, 28V Miniature 12 |

33 TYPING UNIT (UP)

PARTS

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| 21 | Clutch Trip Mechanism | 21 | | | |
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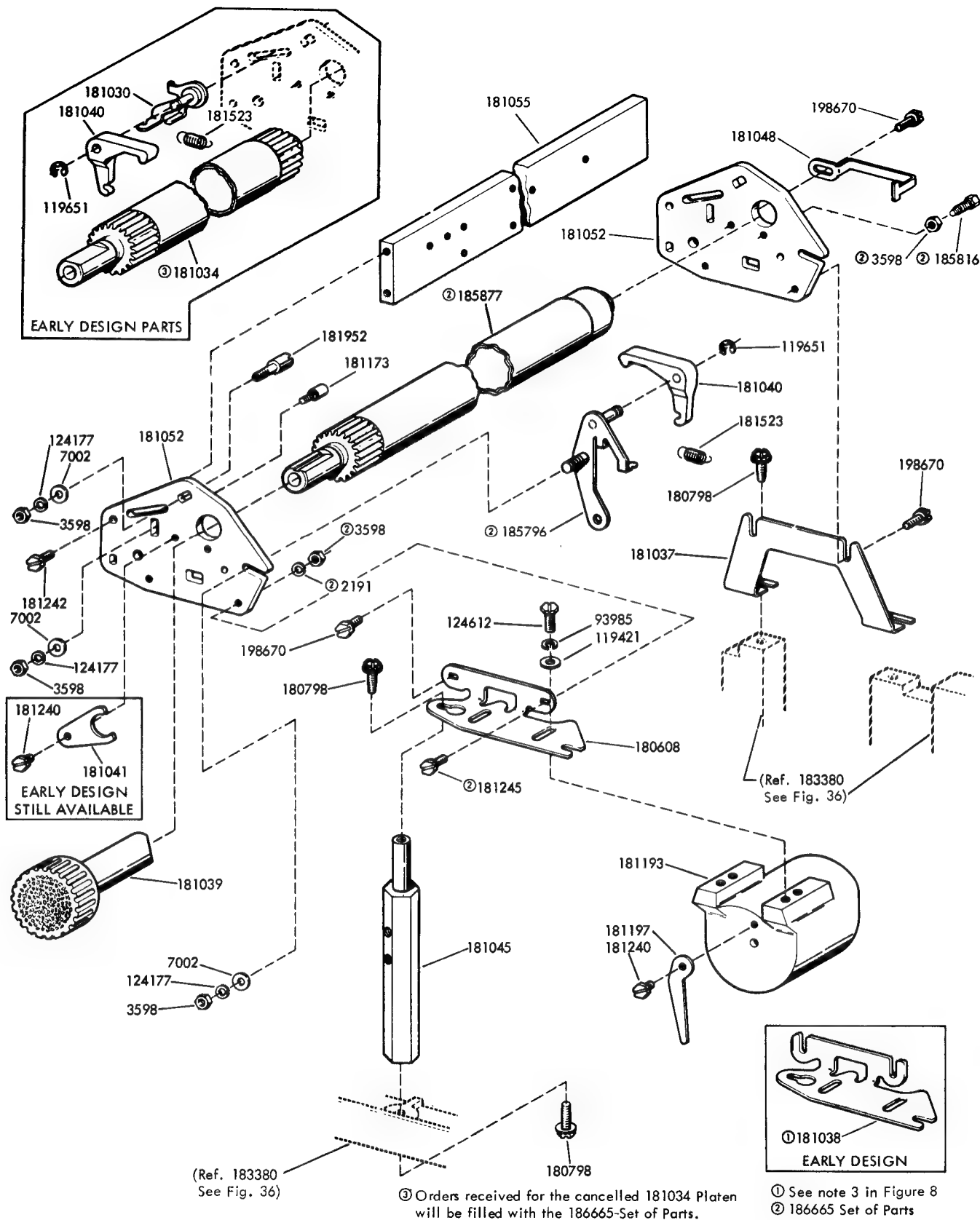


FIGURE 1. PLATEN MECHANISM - FRICTION FEED

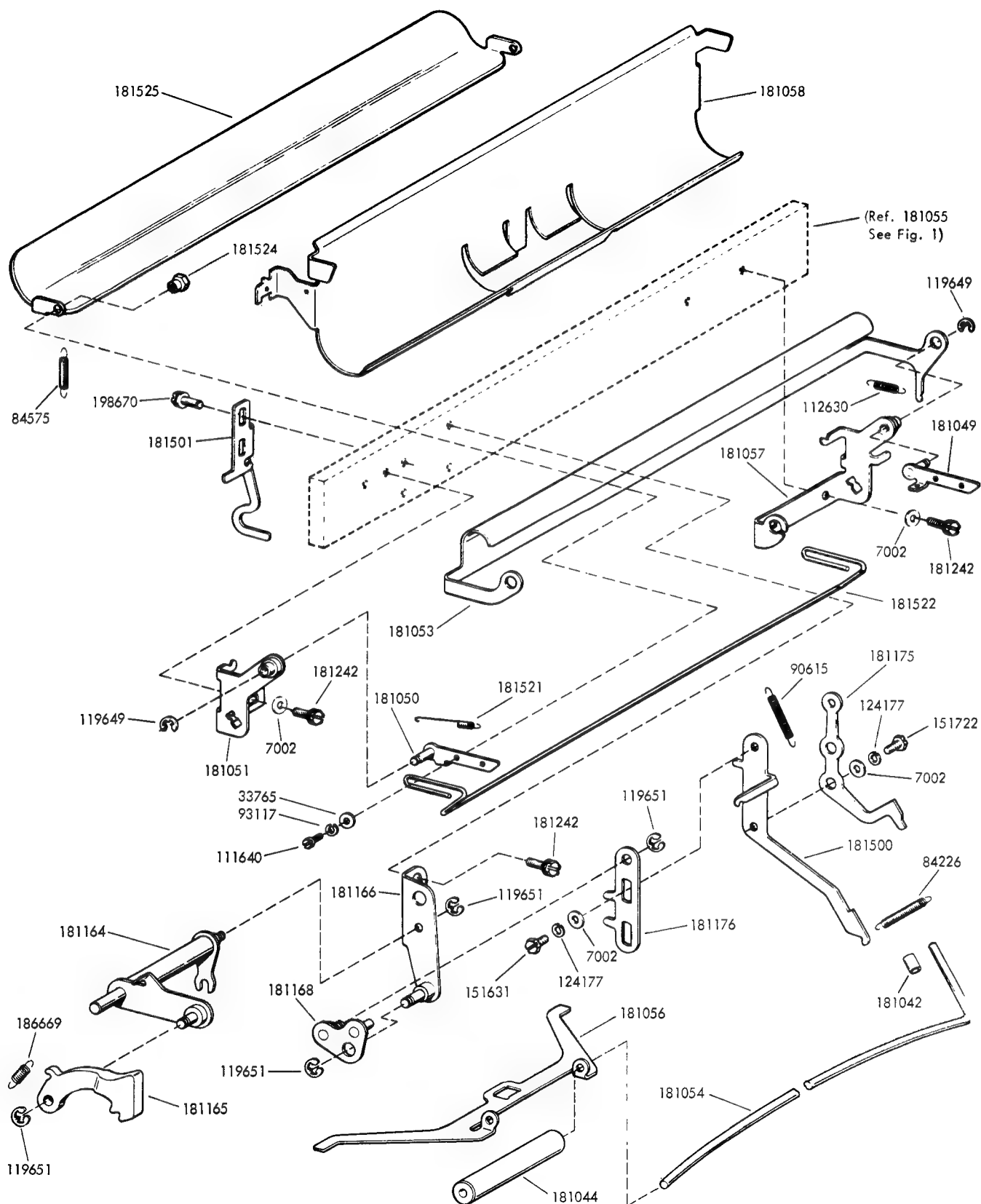


FIGURE 2. PAPER HANDLING MECHANISM - FRICTION FEED

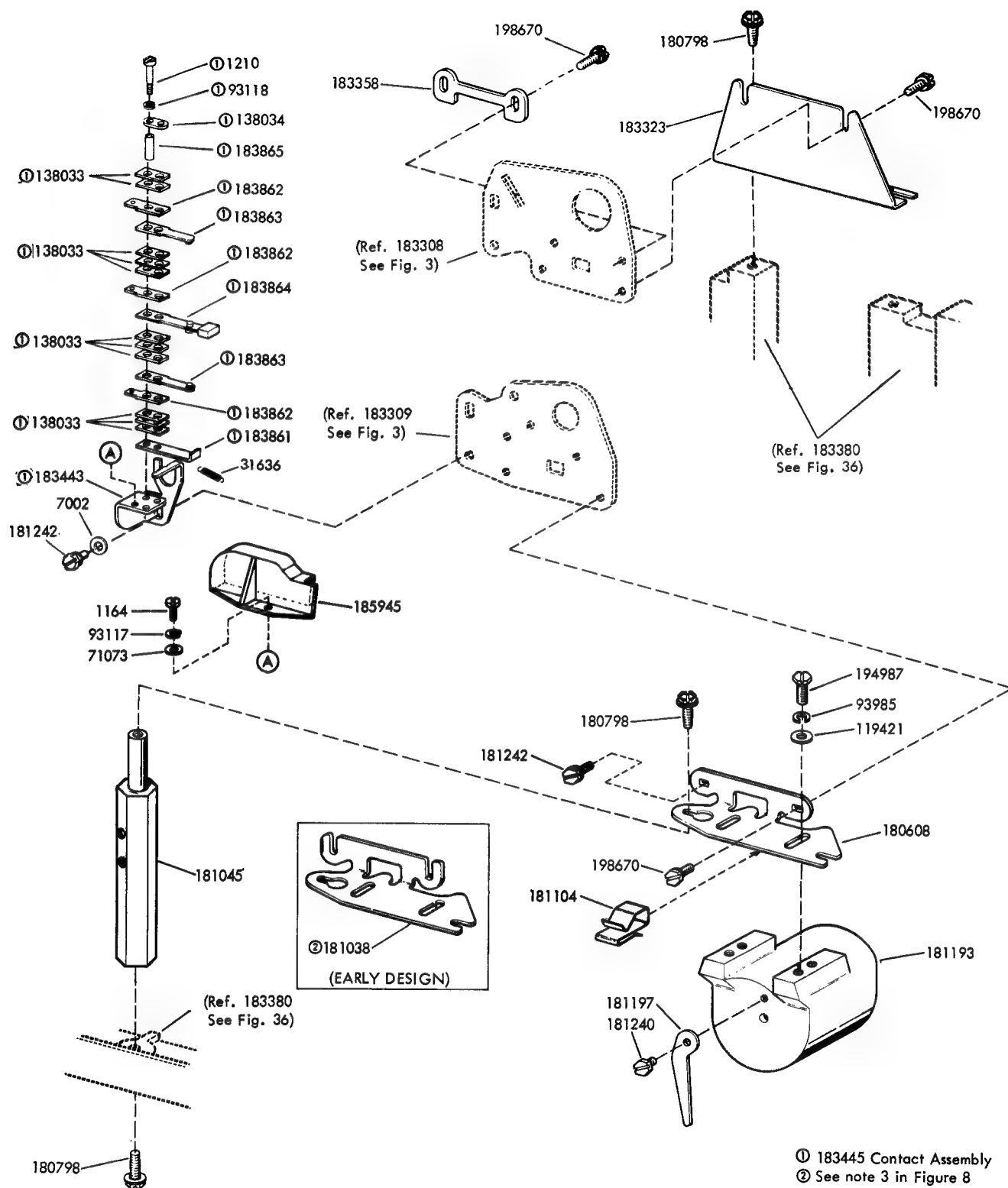


FIGURE 4. PLATEN MECHANISM - SPROCKET FEED (CONTINUED)

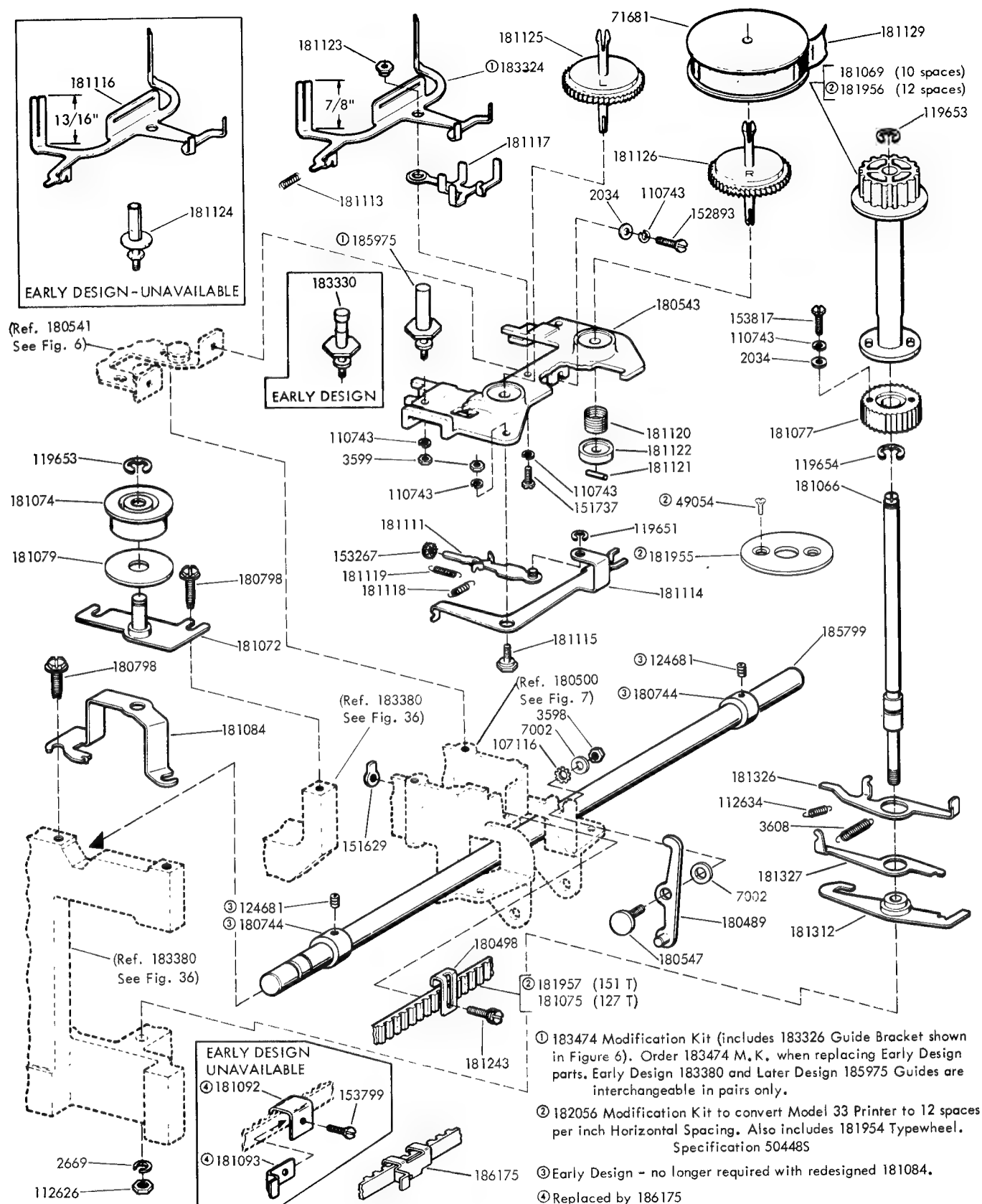


FIGURE 5. RIBBON FEED MECHANISM

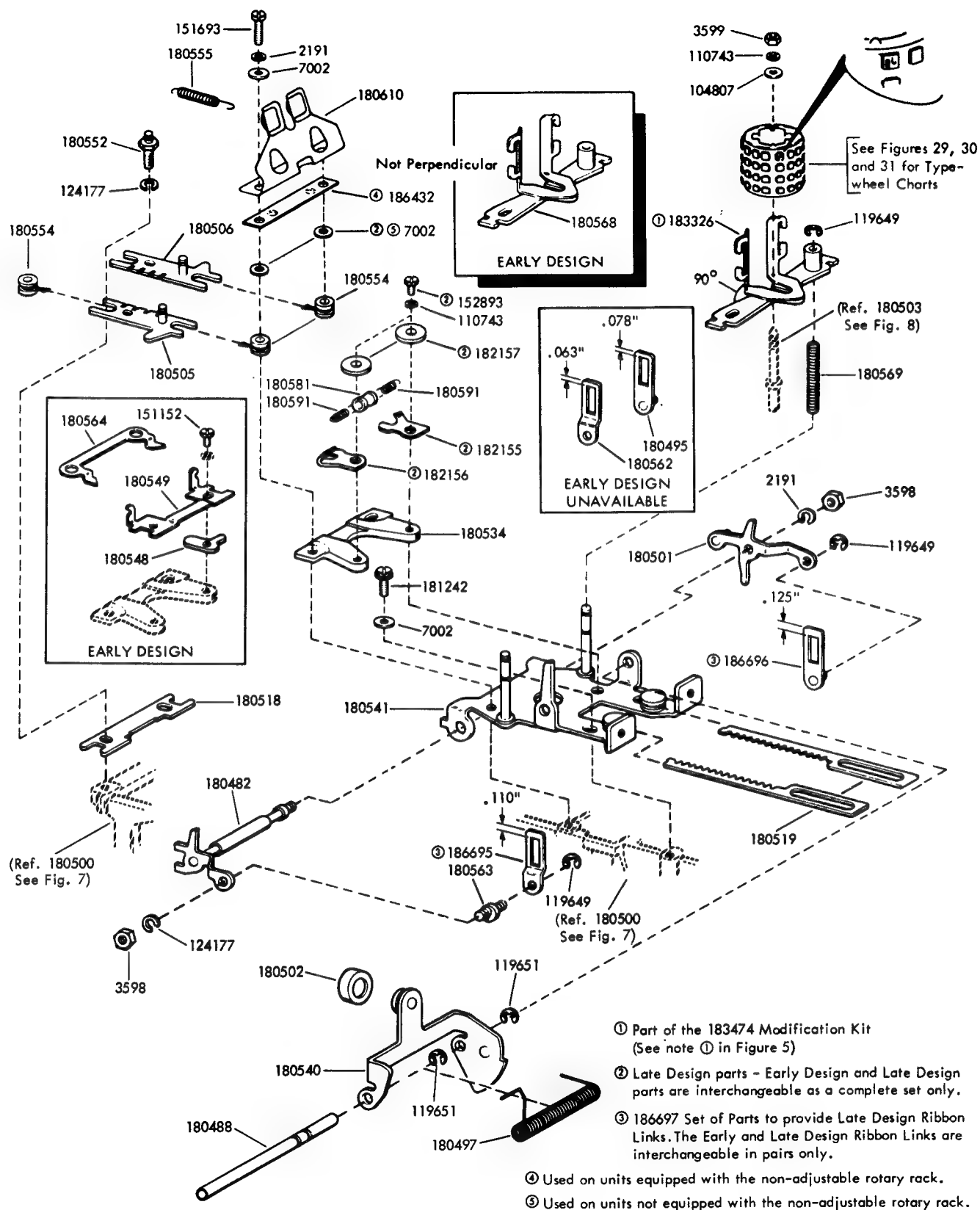


FIGURE 6. CARRIAGE UPPER PLATE MECHANISM

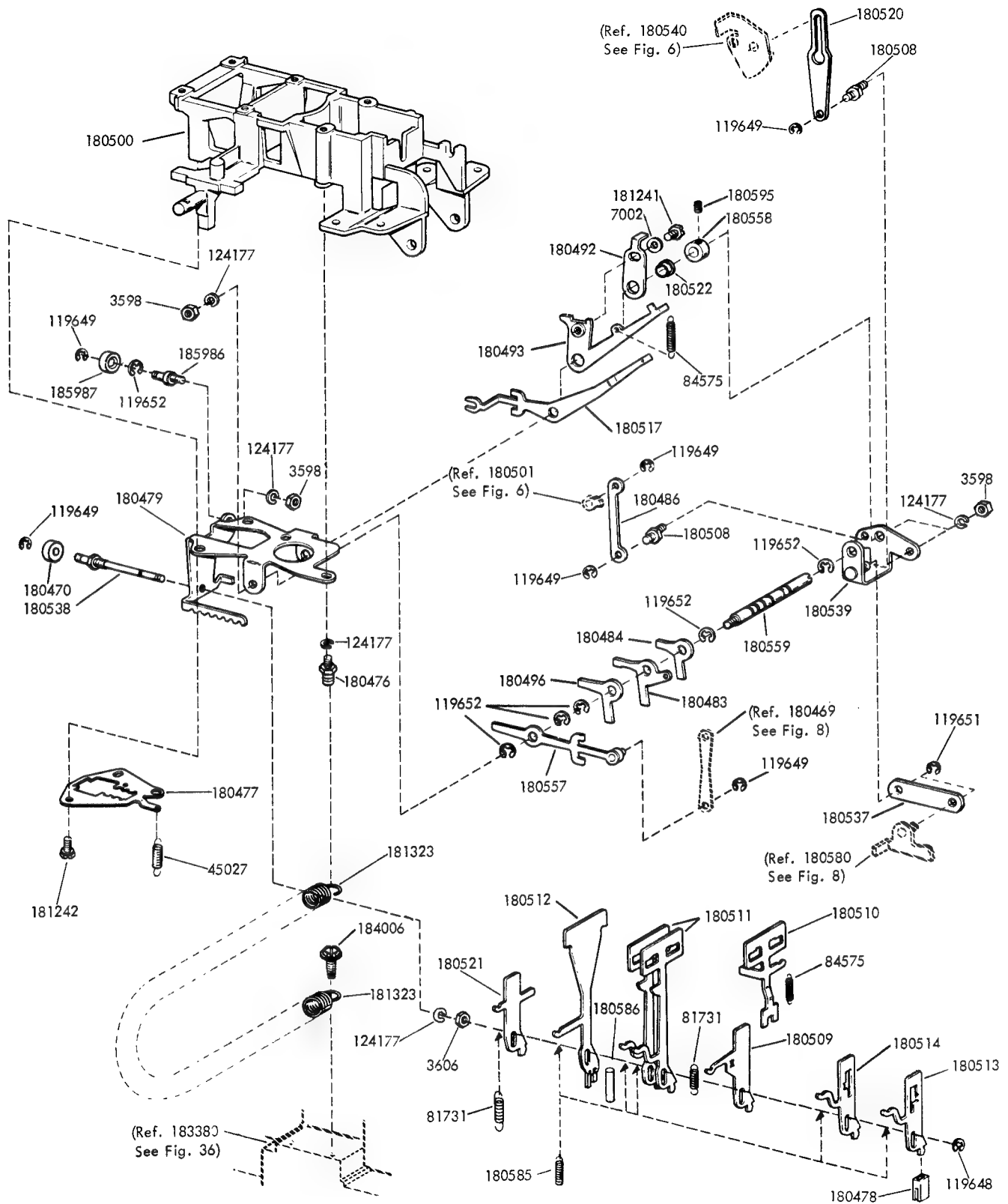


FIGURE 7. CARRIAGE LOWER PLATE MECHANISM

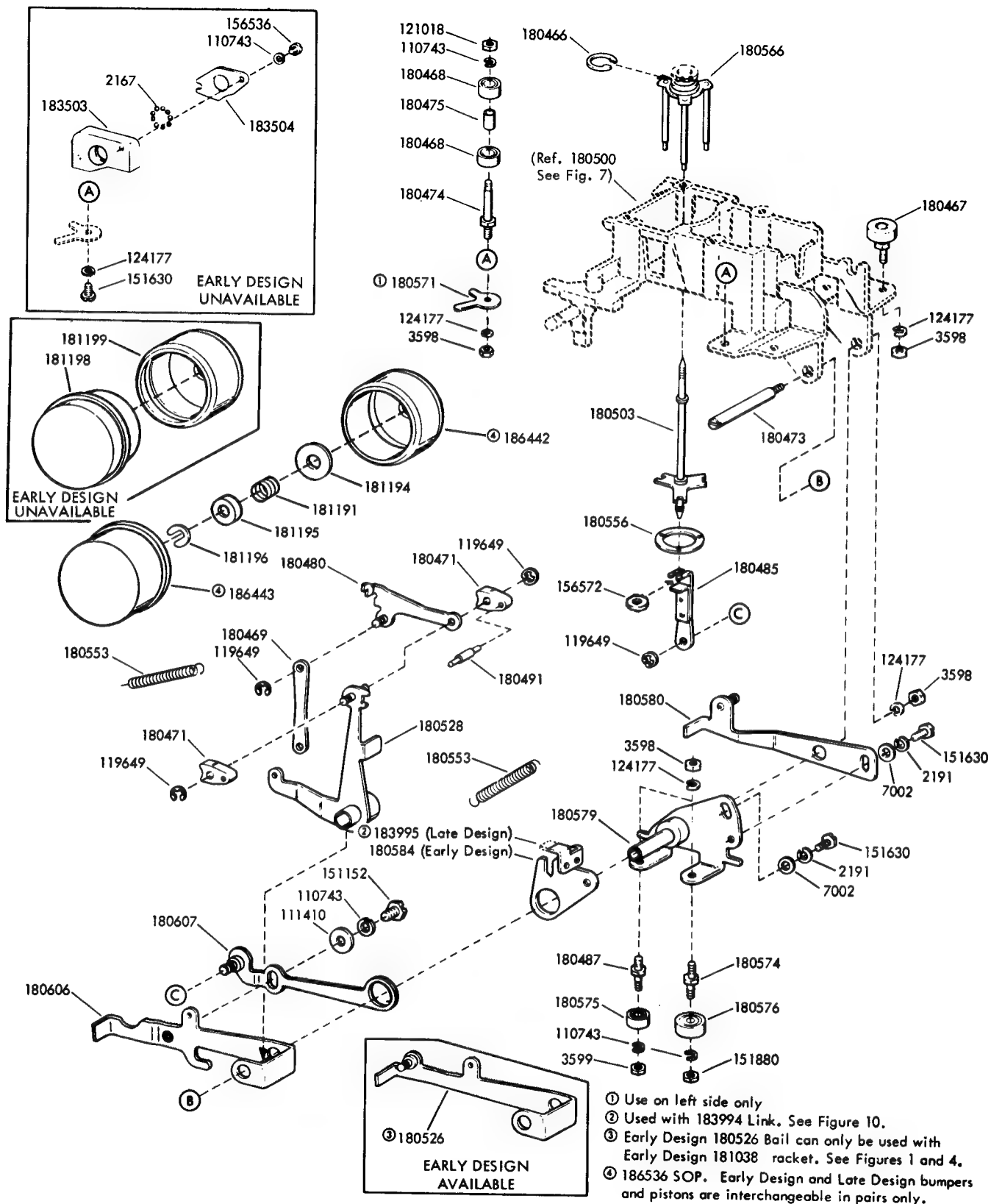


FIGURE 8. CARRIAGE POWER BAIL MECHANISM

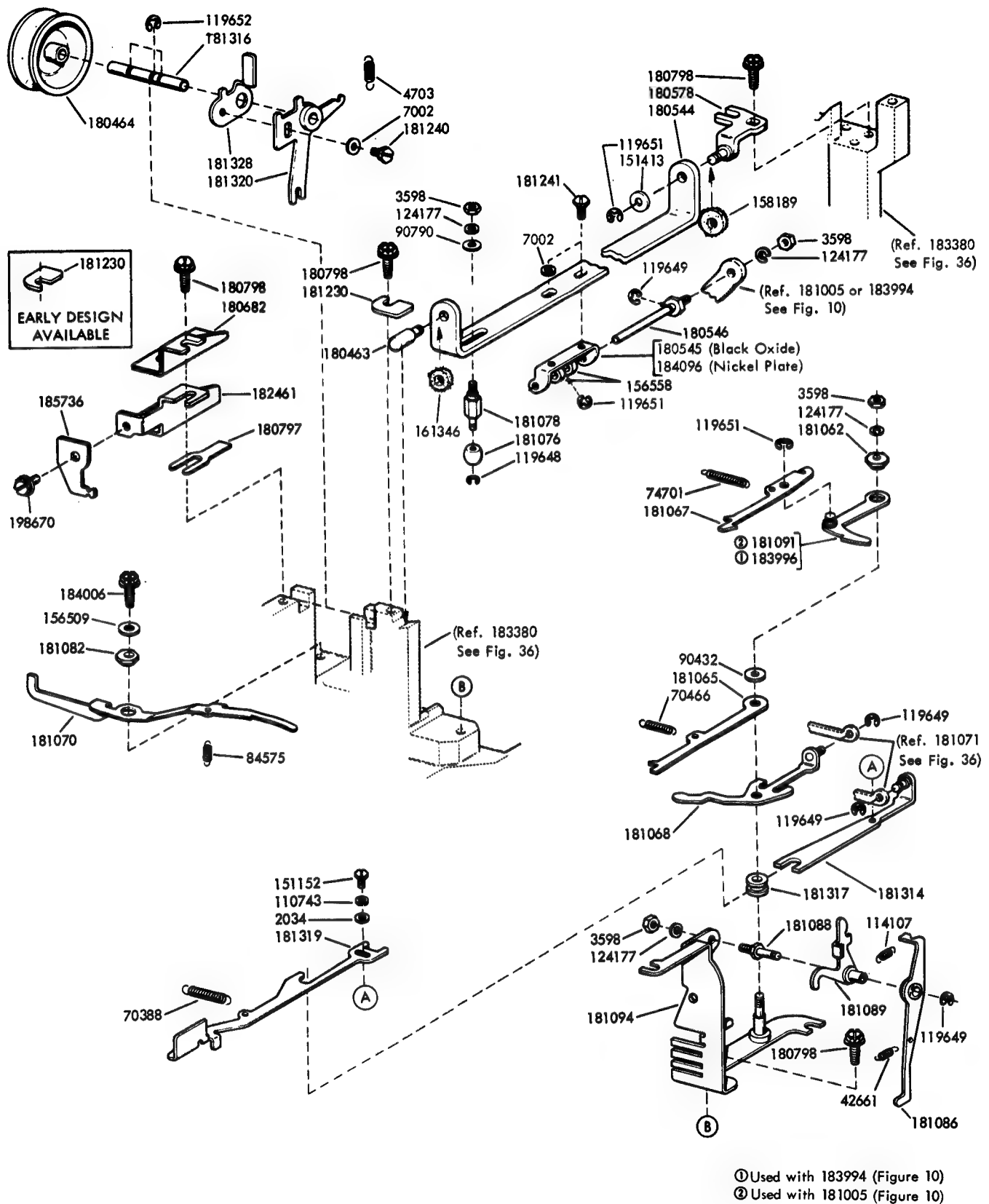


FIGURE 9. CARRIAGE DRIVE BAIL MECHANISM

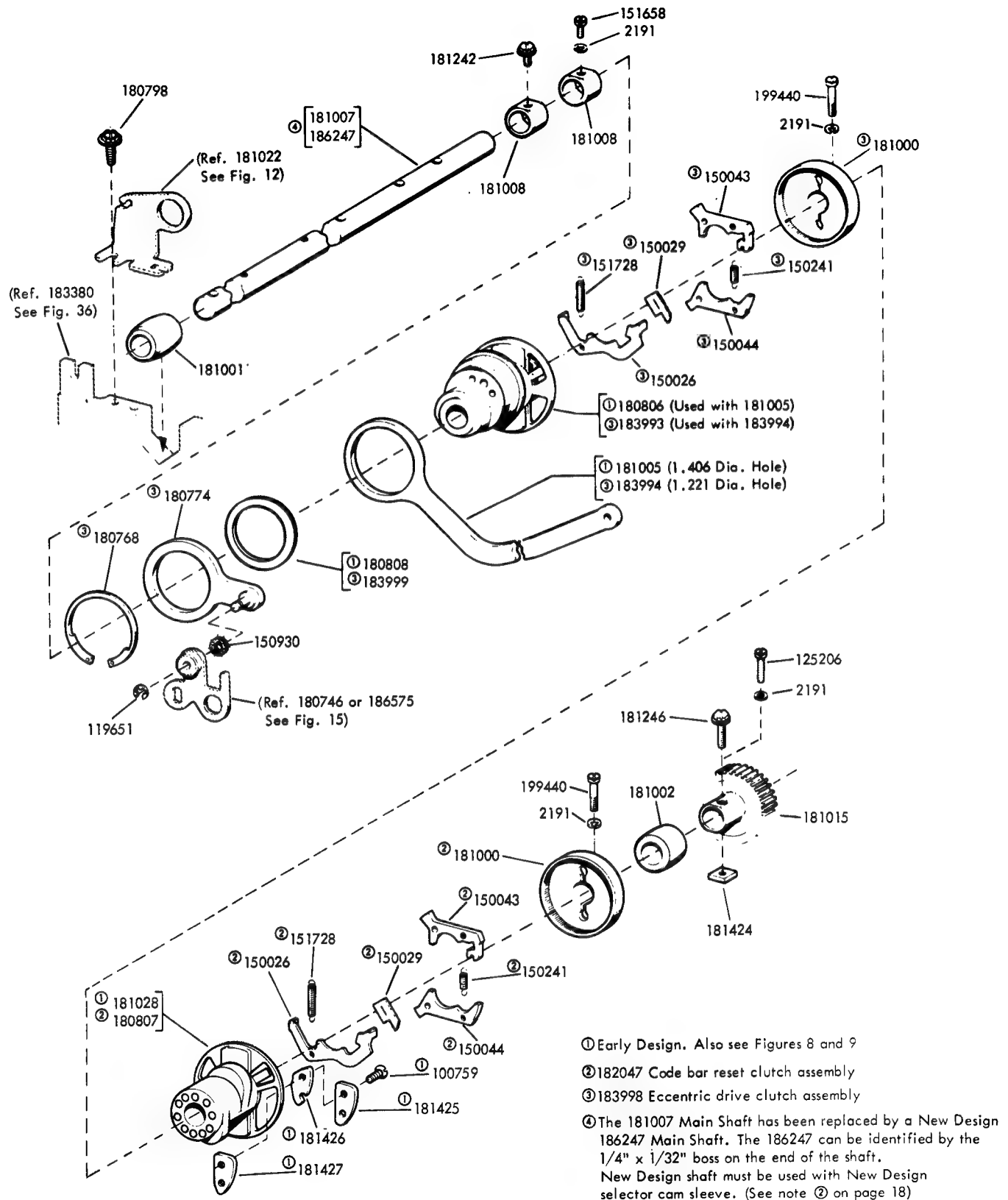


FIGURE 10. MAIN SHAFT MECHANISM - FRICTION FEED

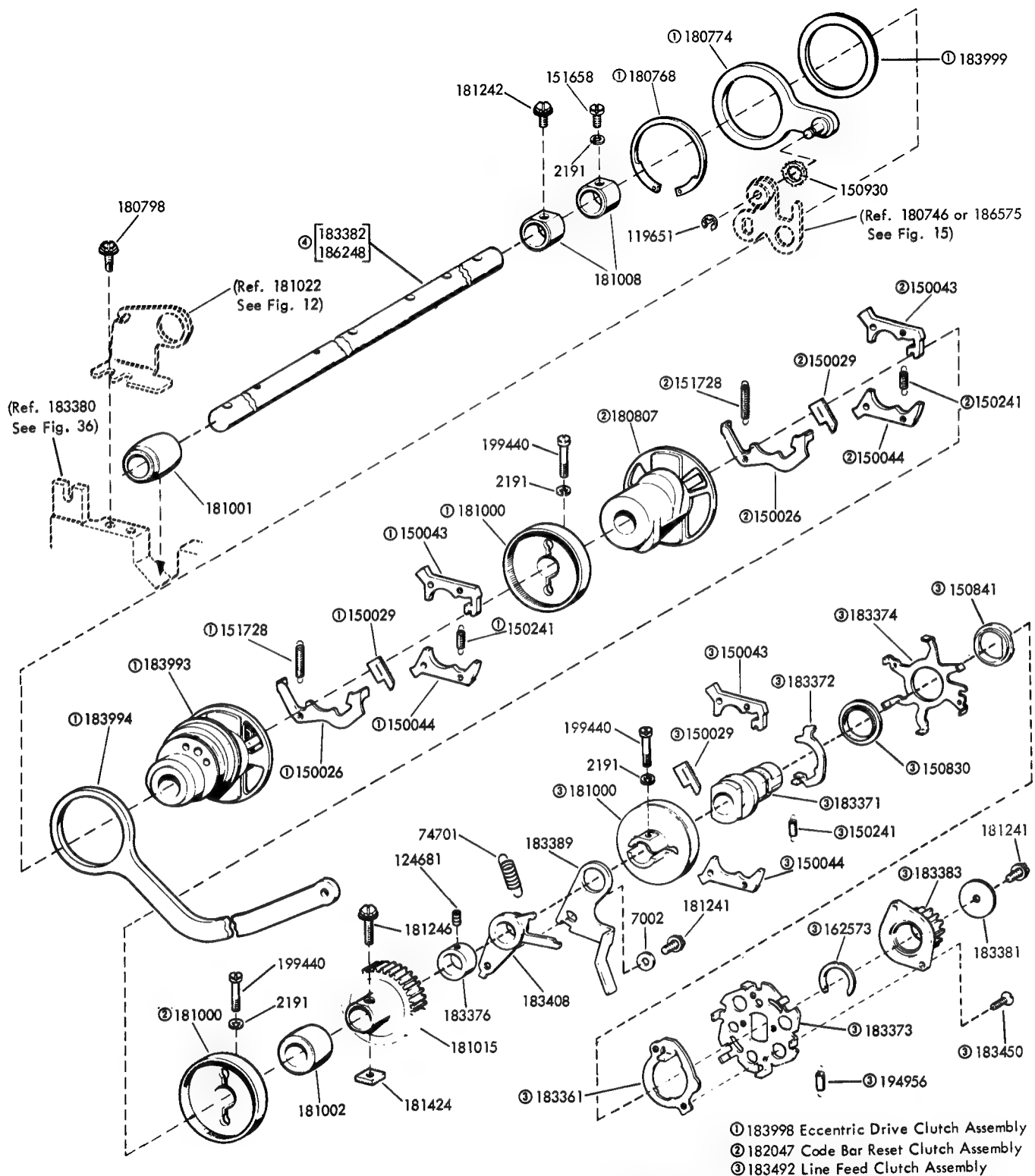


FIGURE 11. MAIN SHAFT MECHANISM - SPROCKET FEED

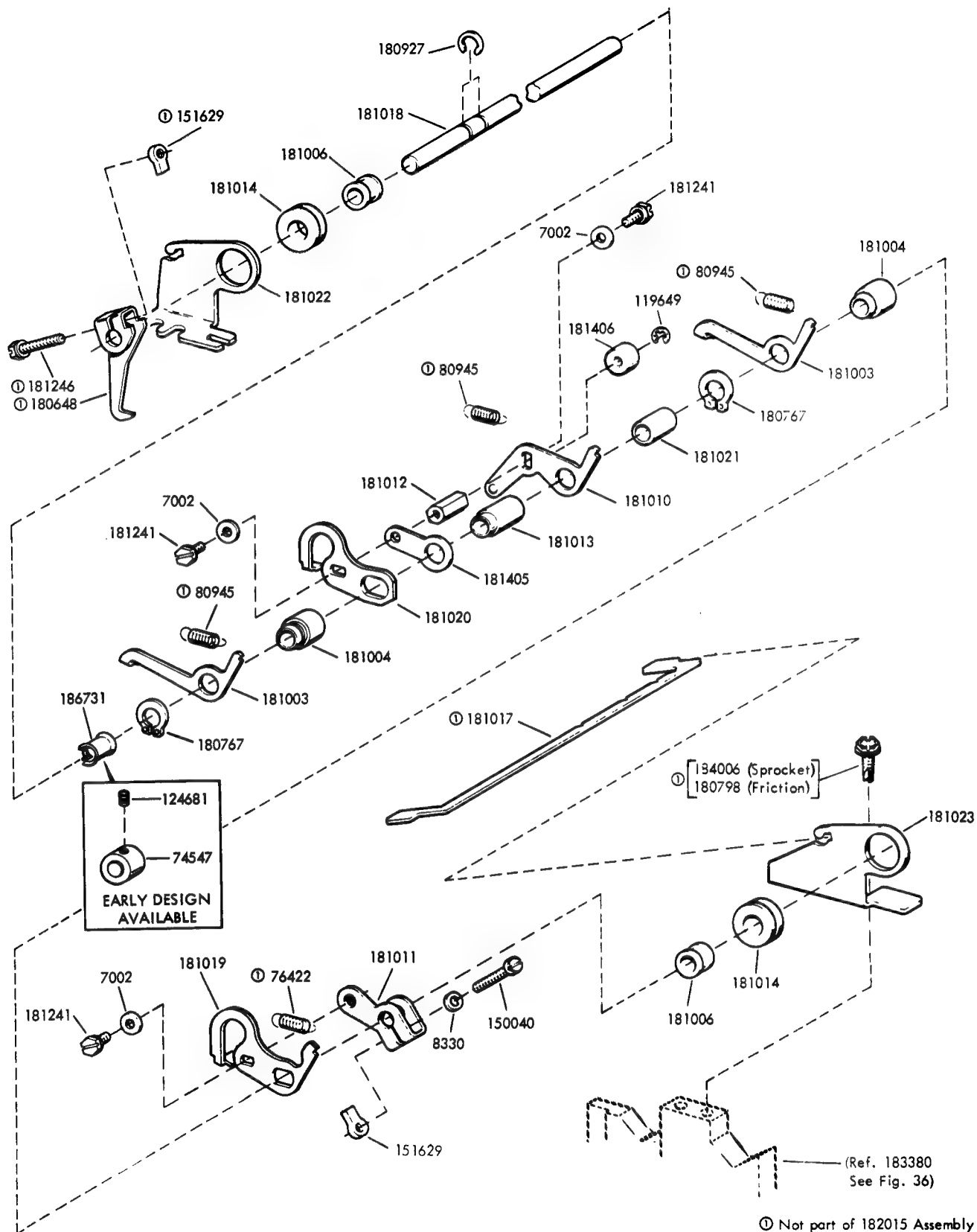


FIGURE 12. 182015 CLUTCH TRIP LEVER ASSEMBLY

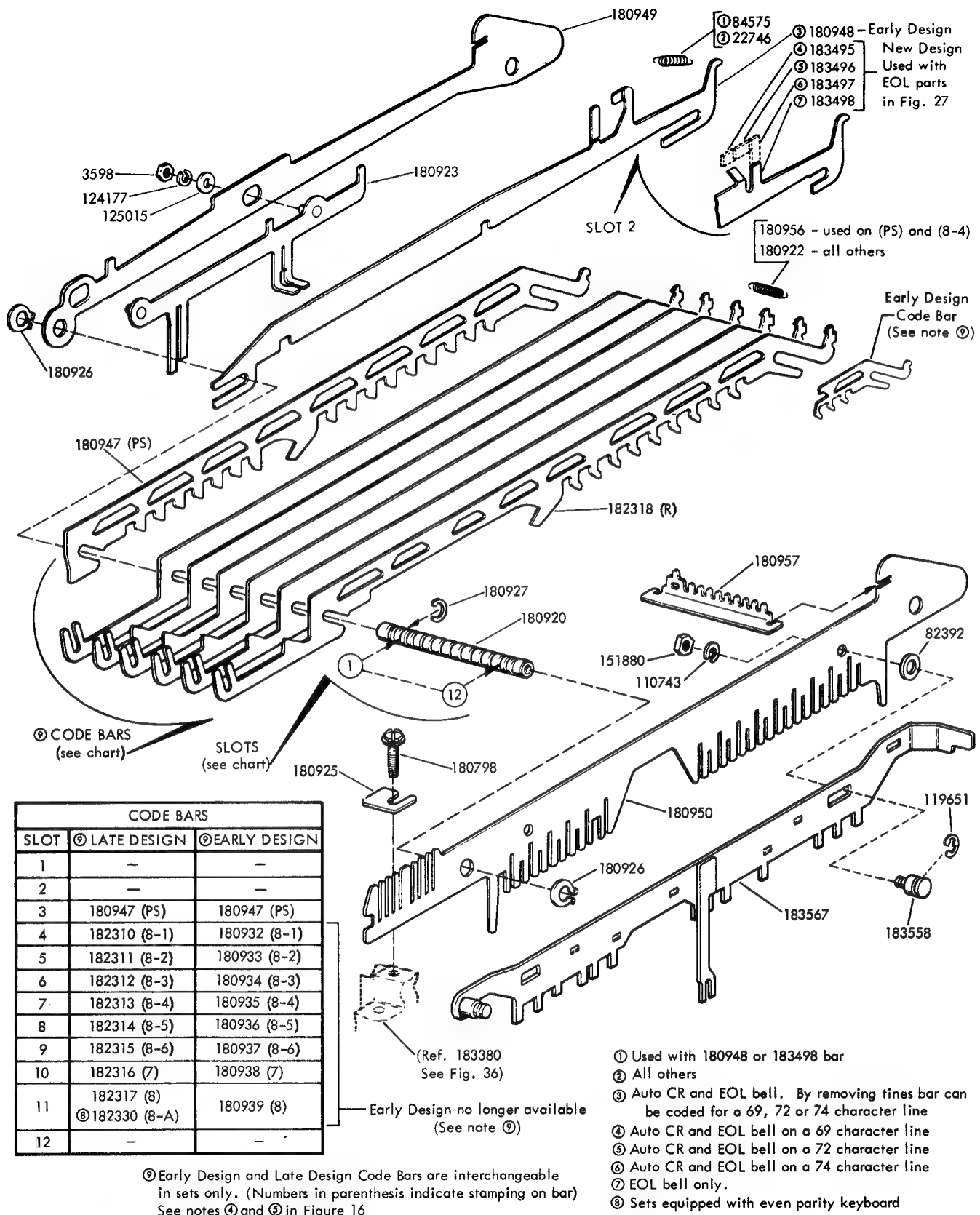


FIGURE 13. CODE BAR BASKET MECHANISM

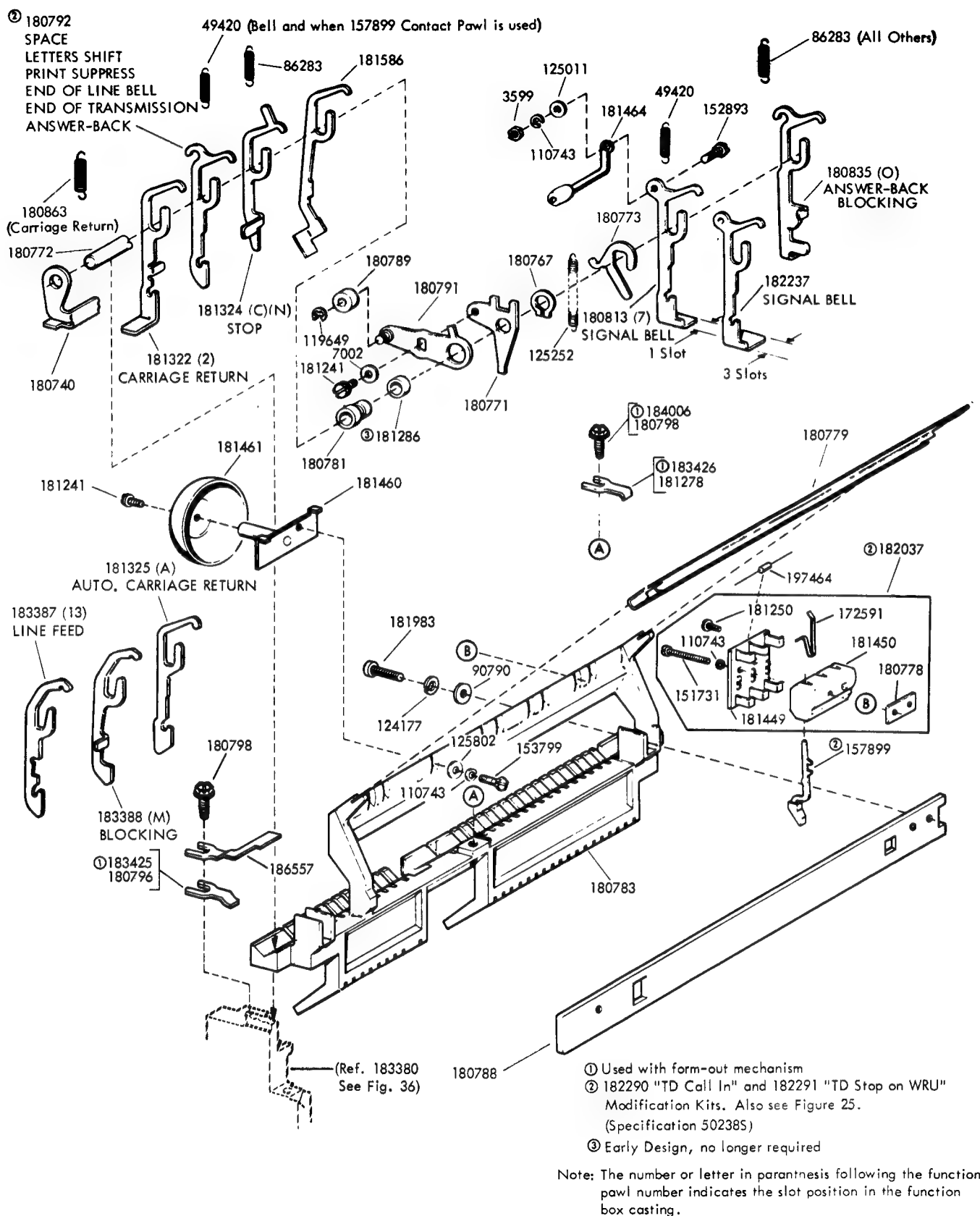


FIGURE 14. FUNCTION BOX MECHANISM

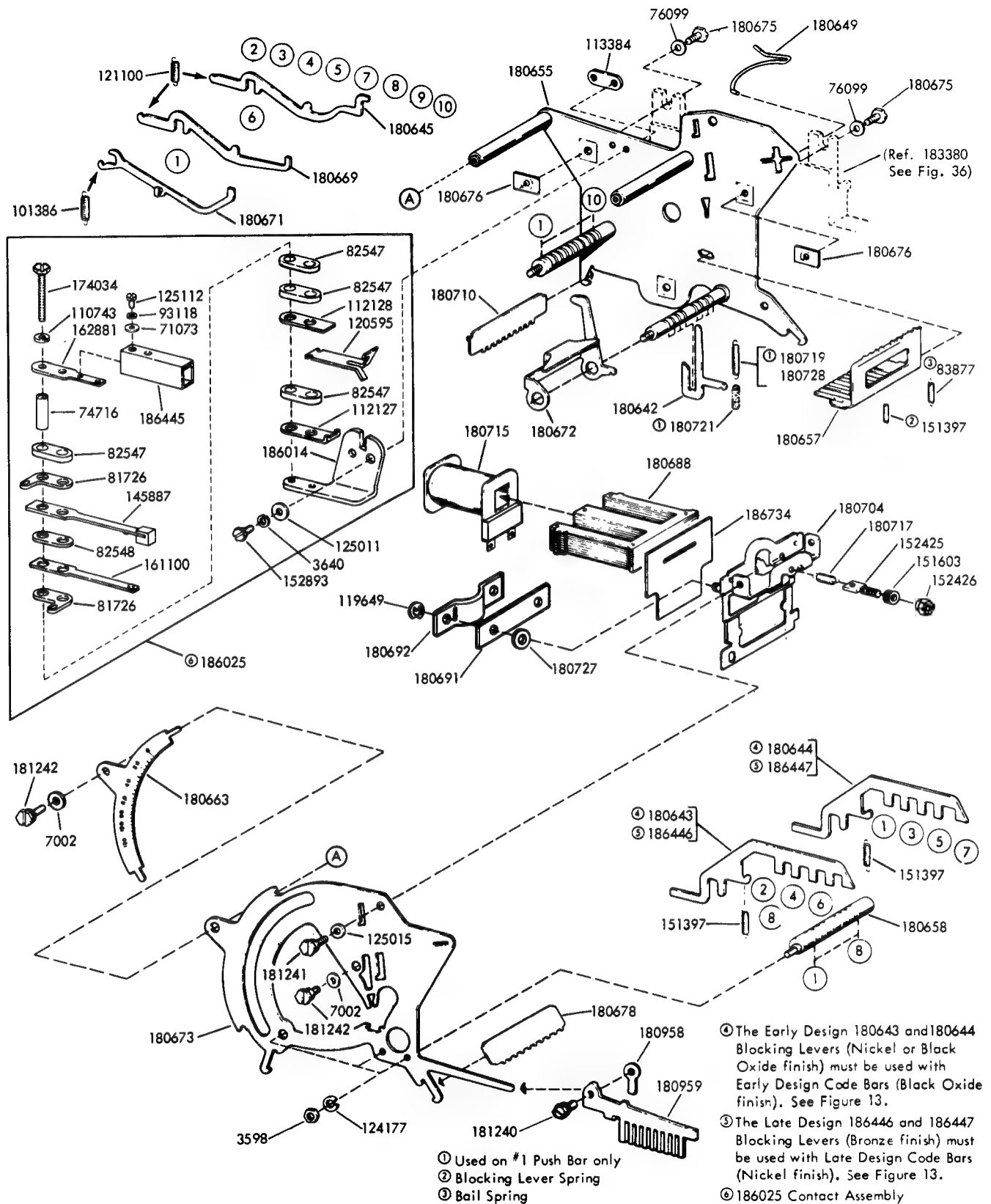


FIGURE 16. SELECTOR FRAME MECHANISM

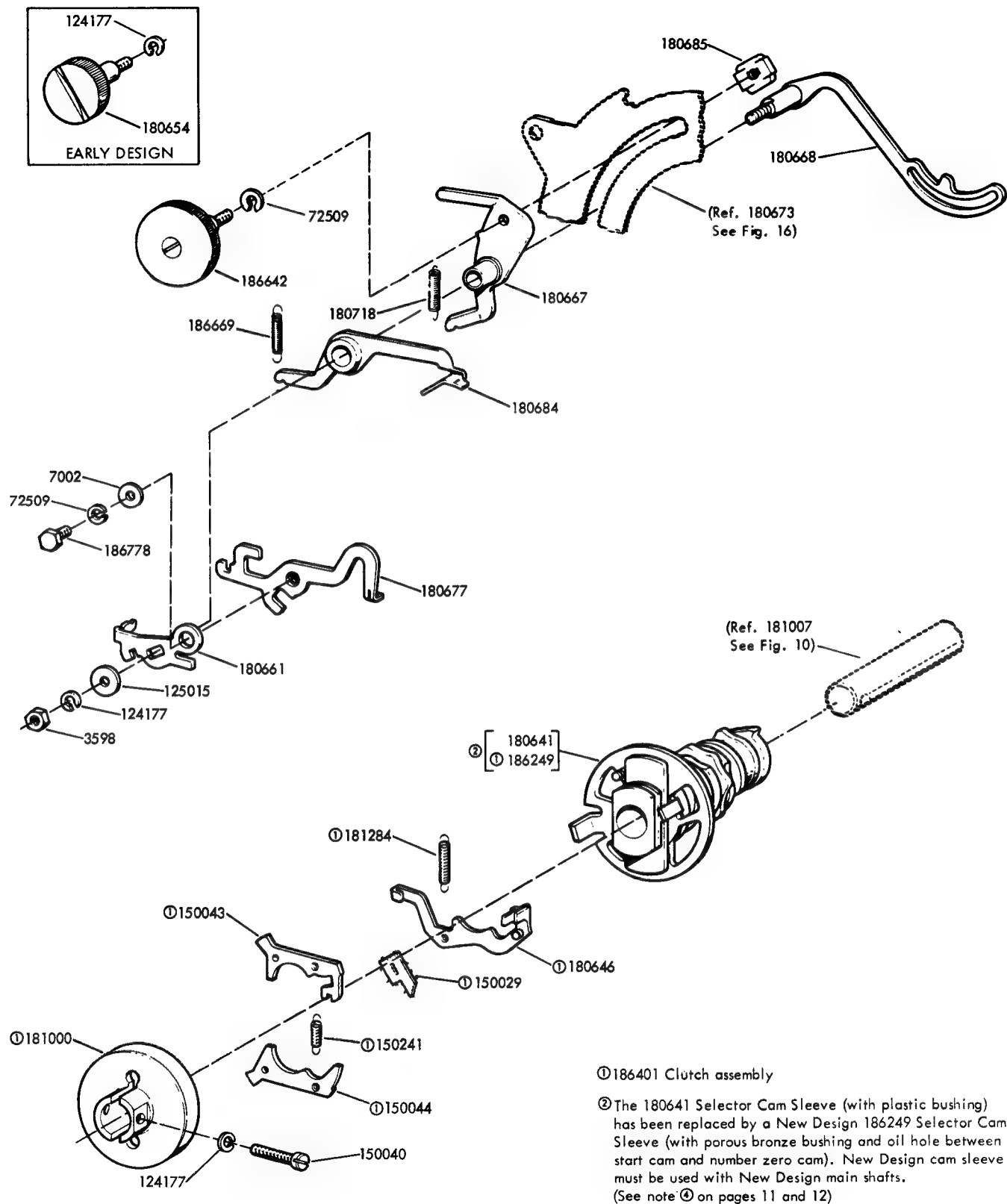


FIGURE 17. CLUTCH AND CAMSLEEVE MECHANISM

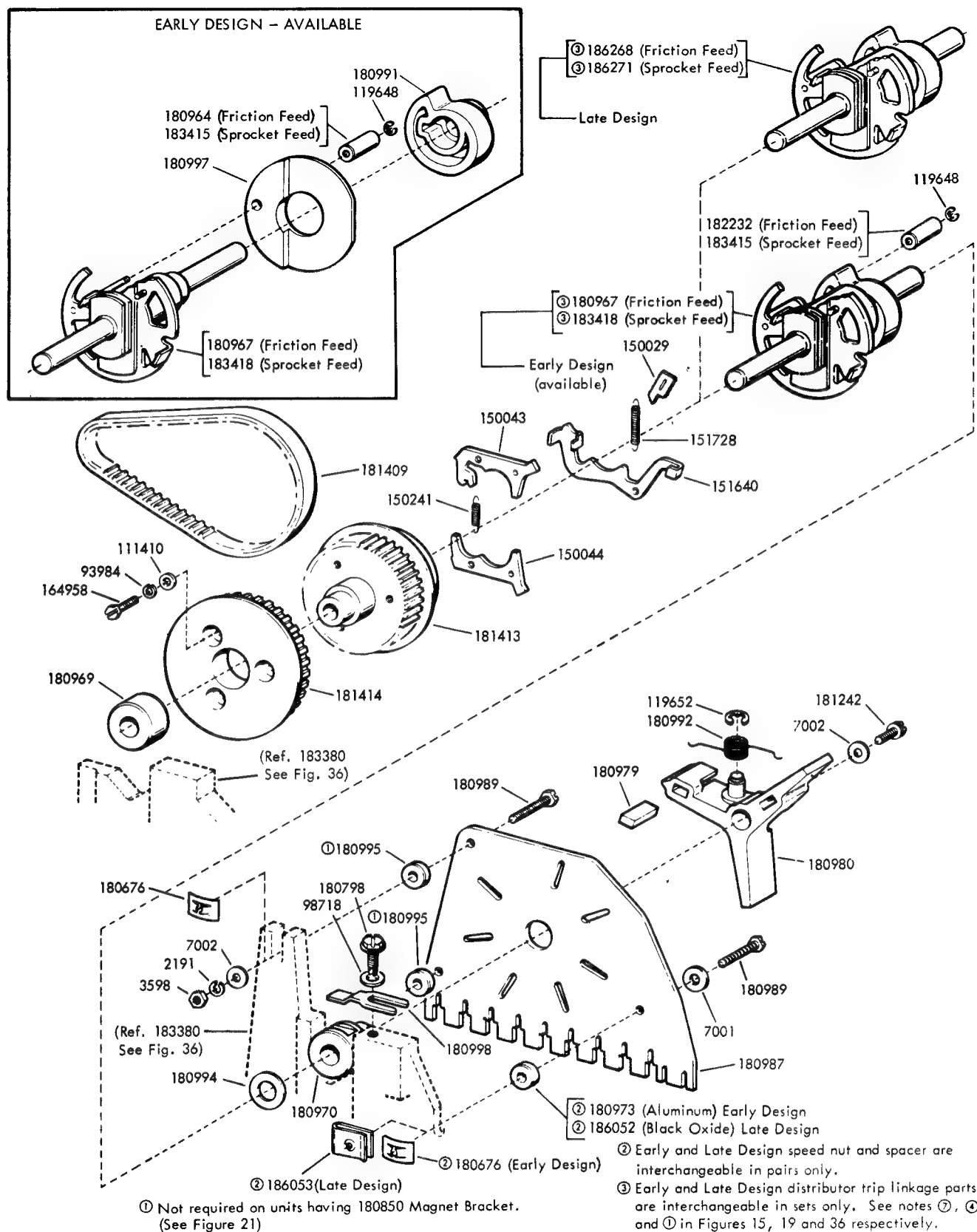
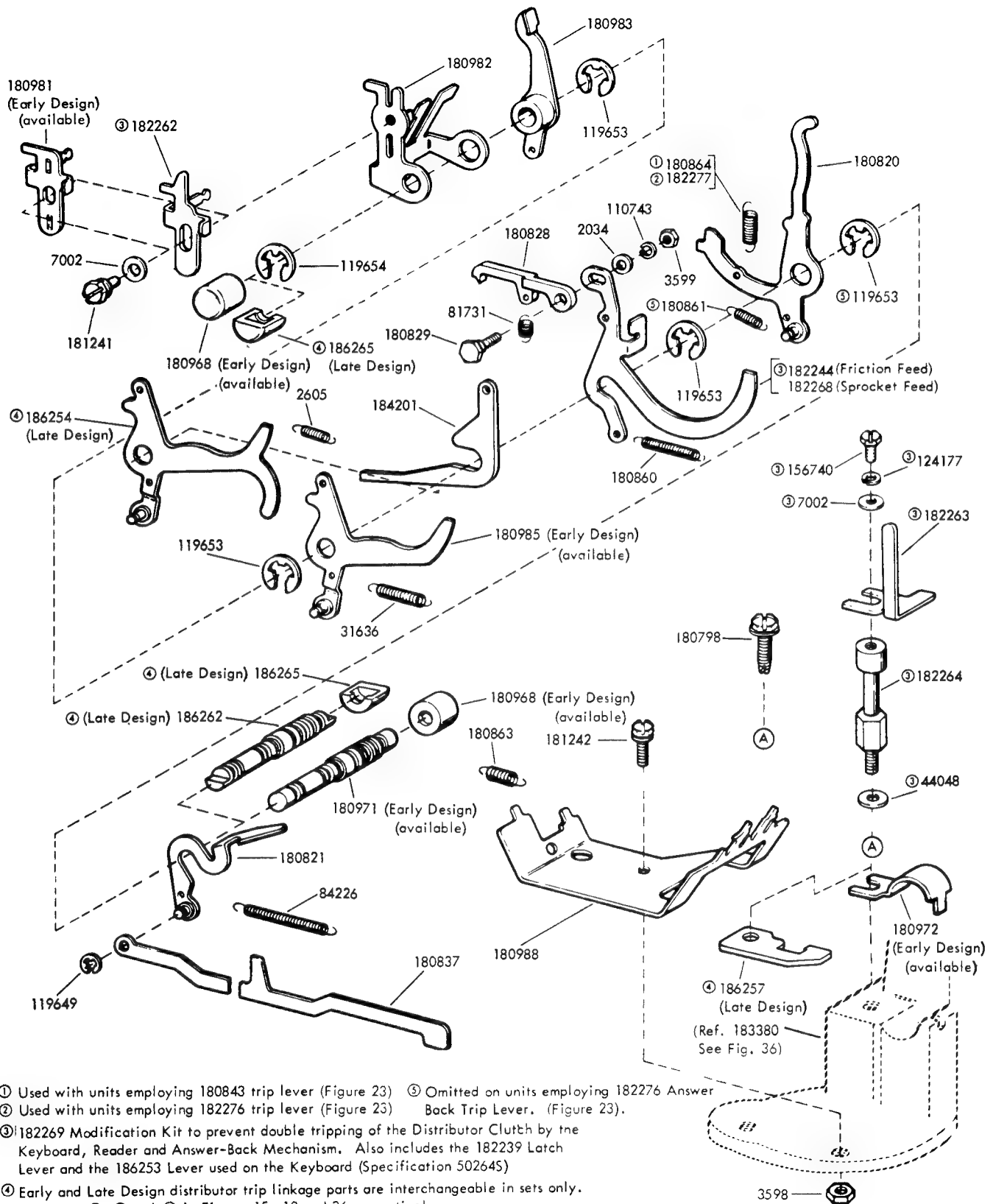


FIGURE 18. DISTRIBUTOR CLUTCH MECHANISM



- ① Used with units employing 180843 trip lever (Figure 23) ③ Omitted on units employing 182276 Answer Back Trip Lever. (Figure 23).
- ② Used with units employing 182276 trip lever (Figure 23)
- ③ 182269 Modification Kit to prevent double tripping of the Distributor Clutch by the Keyboard, Reader and Answer-Back Mechanism. Also includes the 182239 Latch Lever and the 186253 Lever used on the Keyboard (Specification 502645)
- ④ Early and Late Design distributor trip linkage parts are interchangeable in sets only. See notes ②, ③ and ① in Figures 15, 18 and 36 respectively.

FIGURE 19. TRIP SHAFT MECHANISM

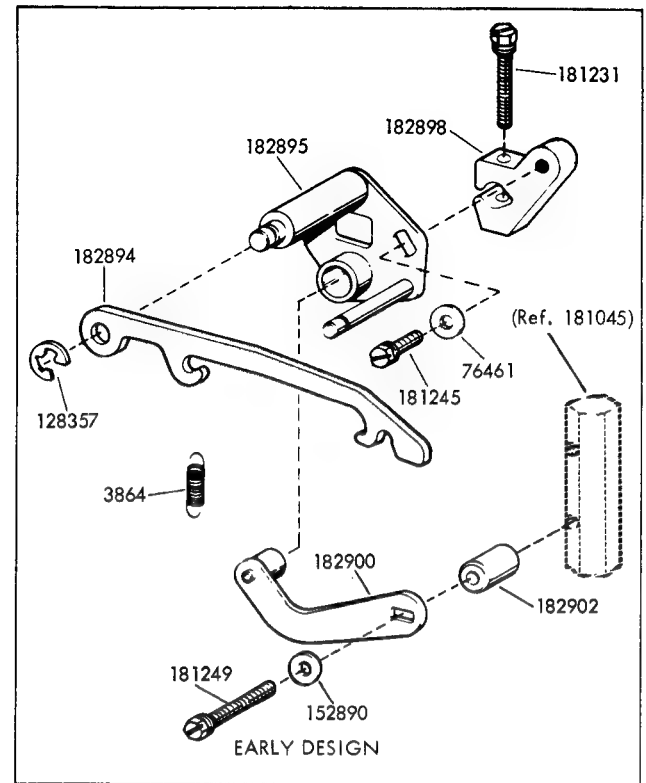
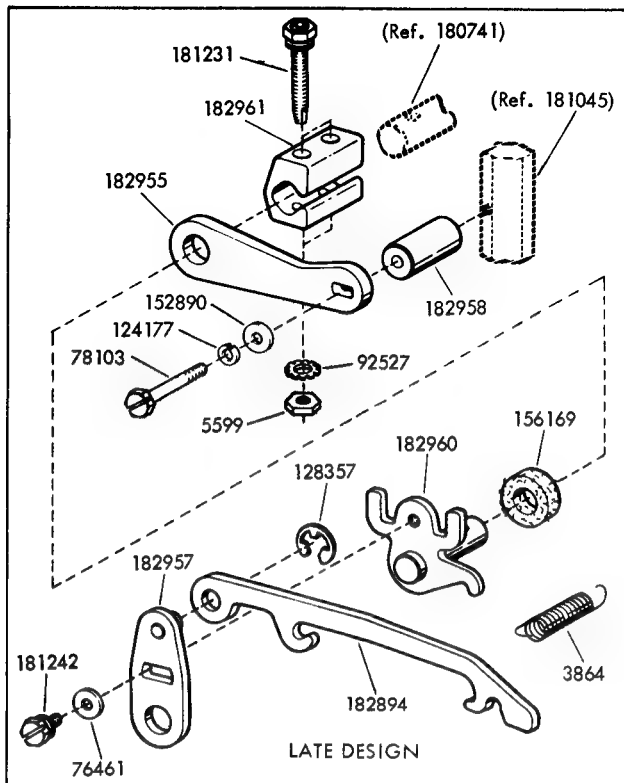


FIGURE 20. 182964 DRIVE ARM ASSEMBLY

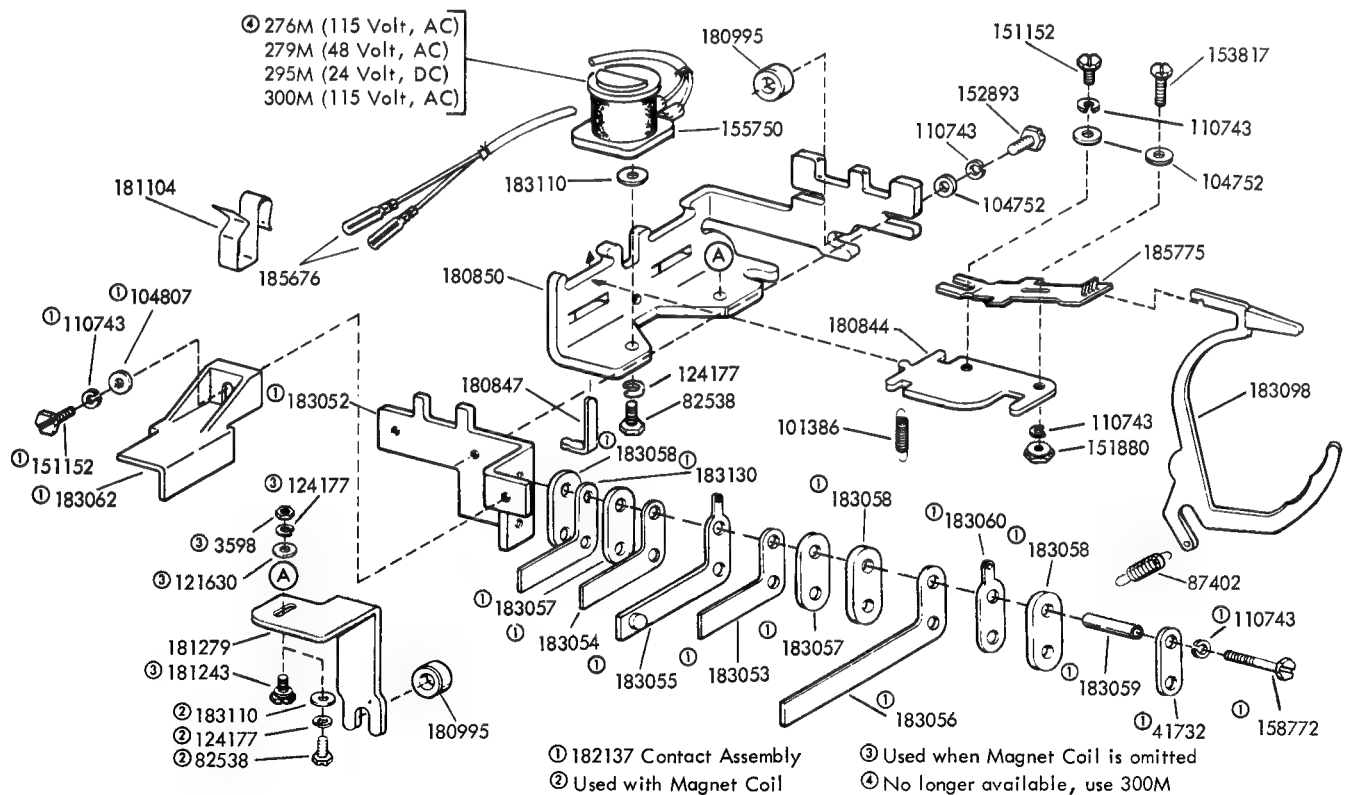


FIGURE 21. CLUTCH TRIP MECHANISM

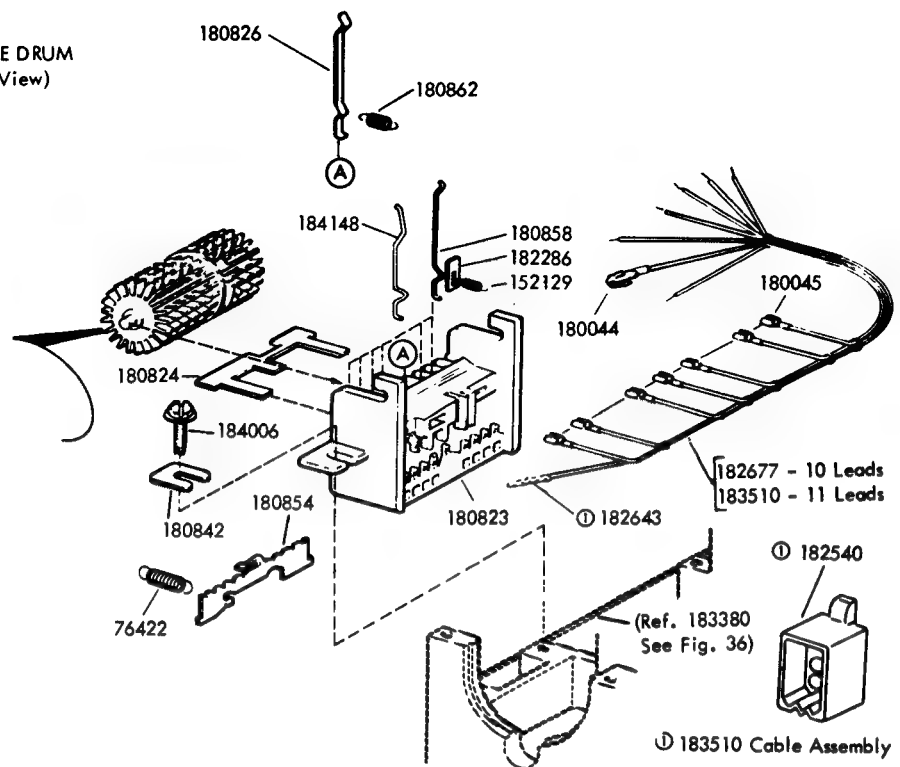
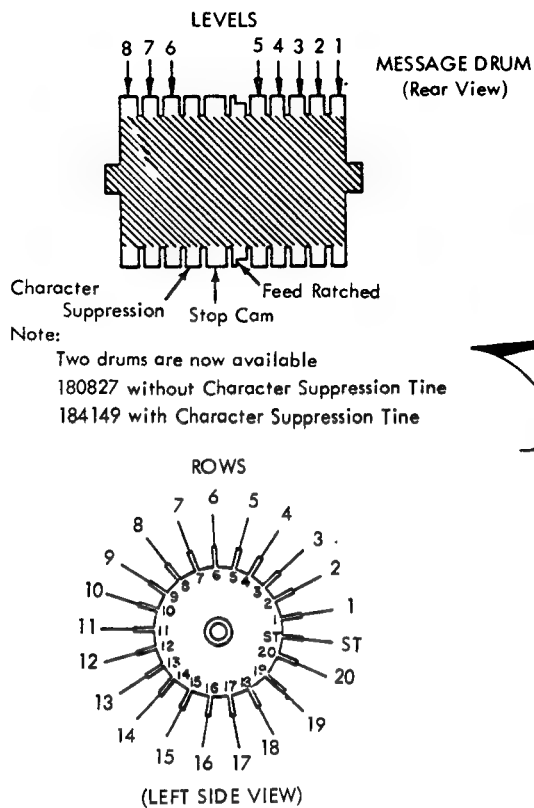


FIGURE 22. ANSWER-BACK DRUM MECHANISM

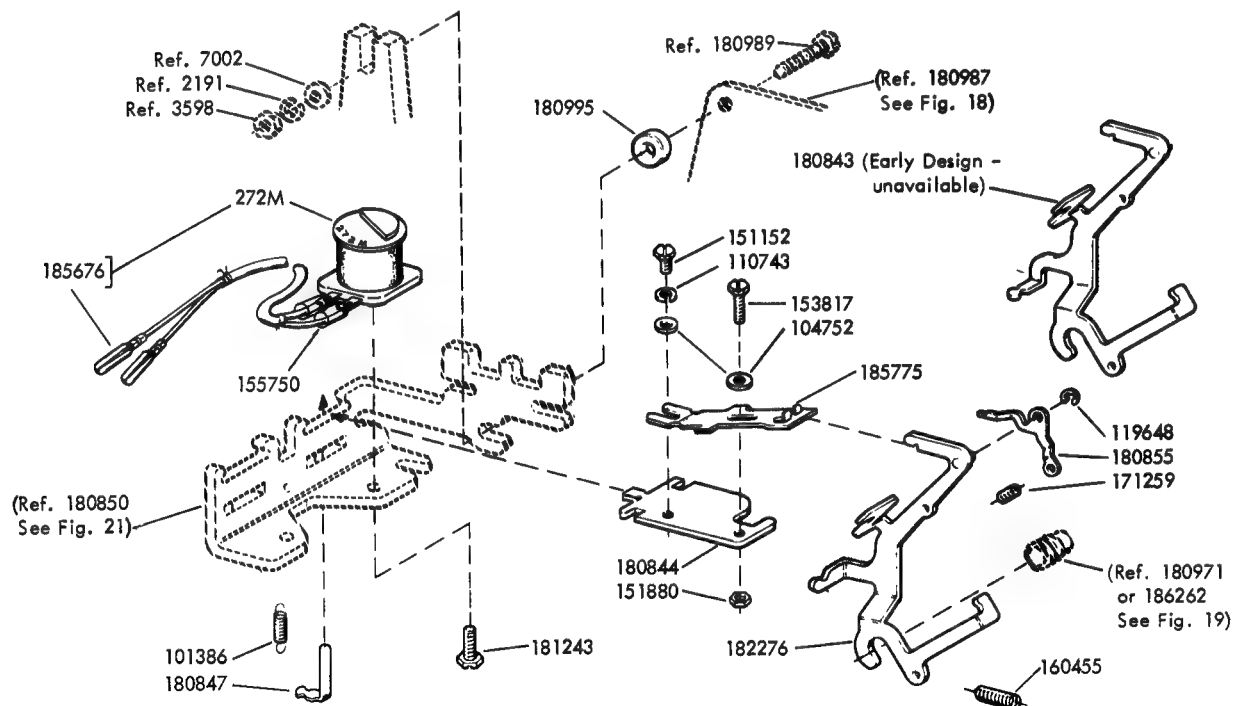
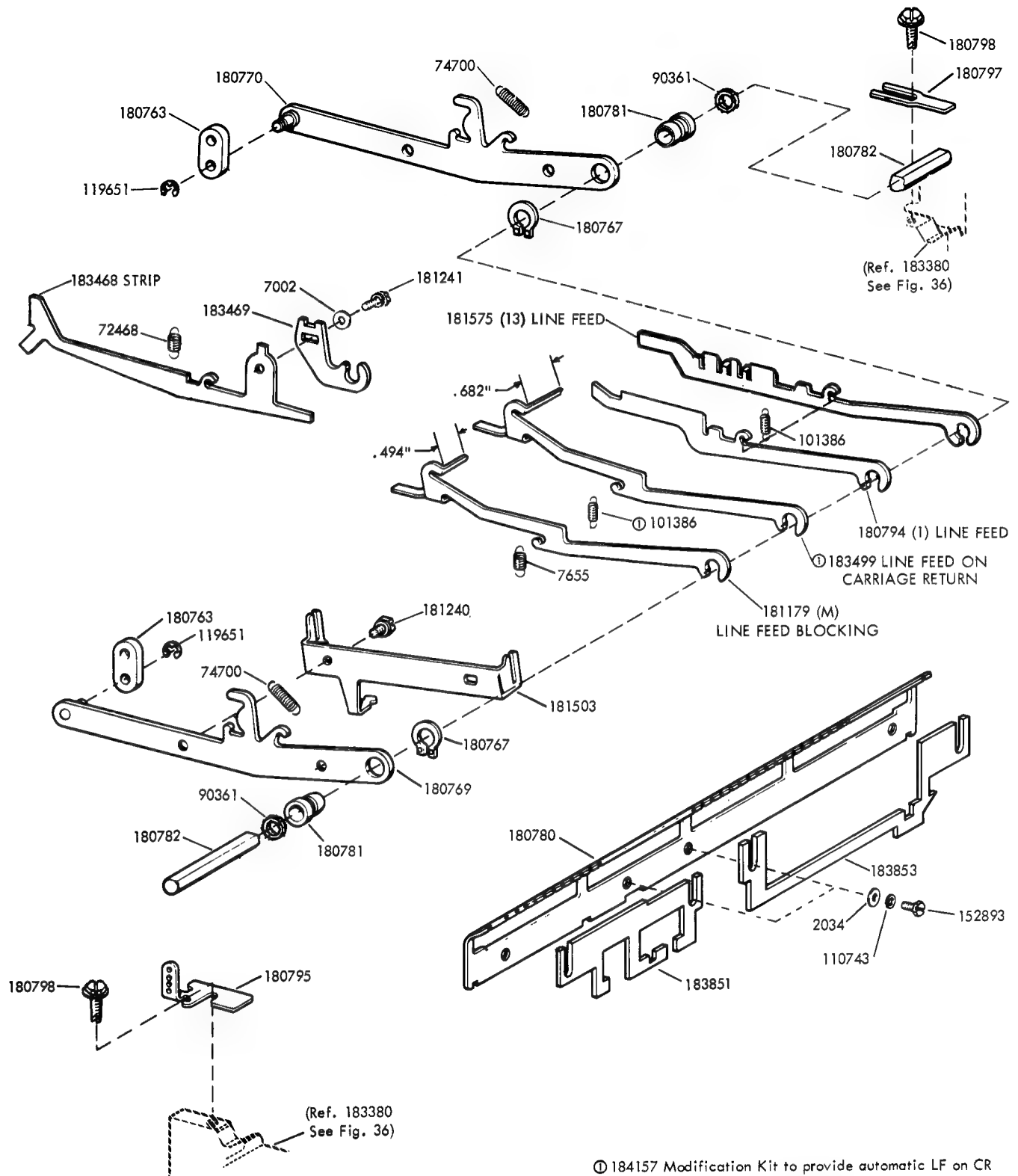
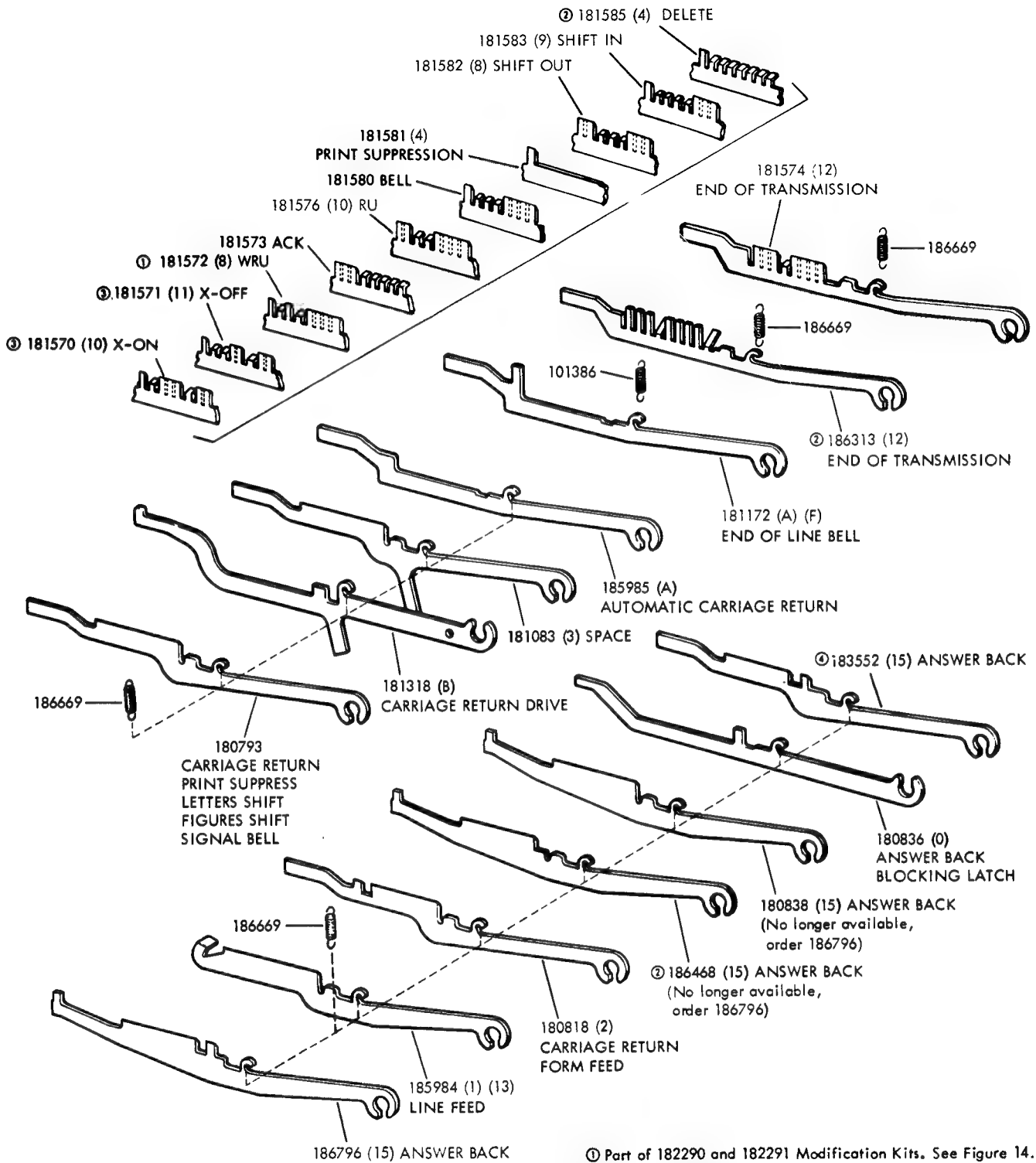


FIGURE 23. ANSWER-BACK TRIP MAGNET MECHANISM



Number or letter in parenthesis () indicates slot Function Levers may occupy.

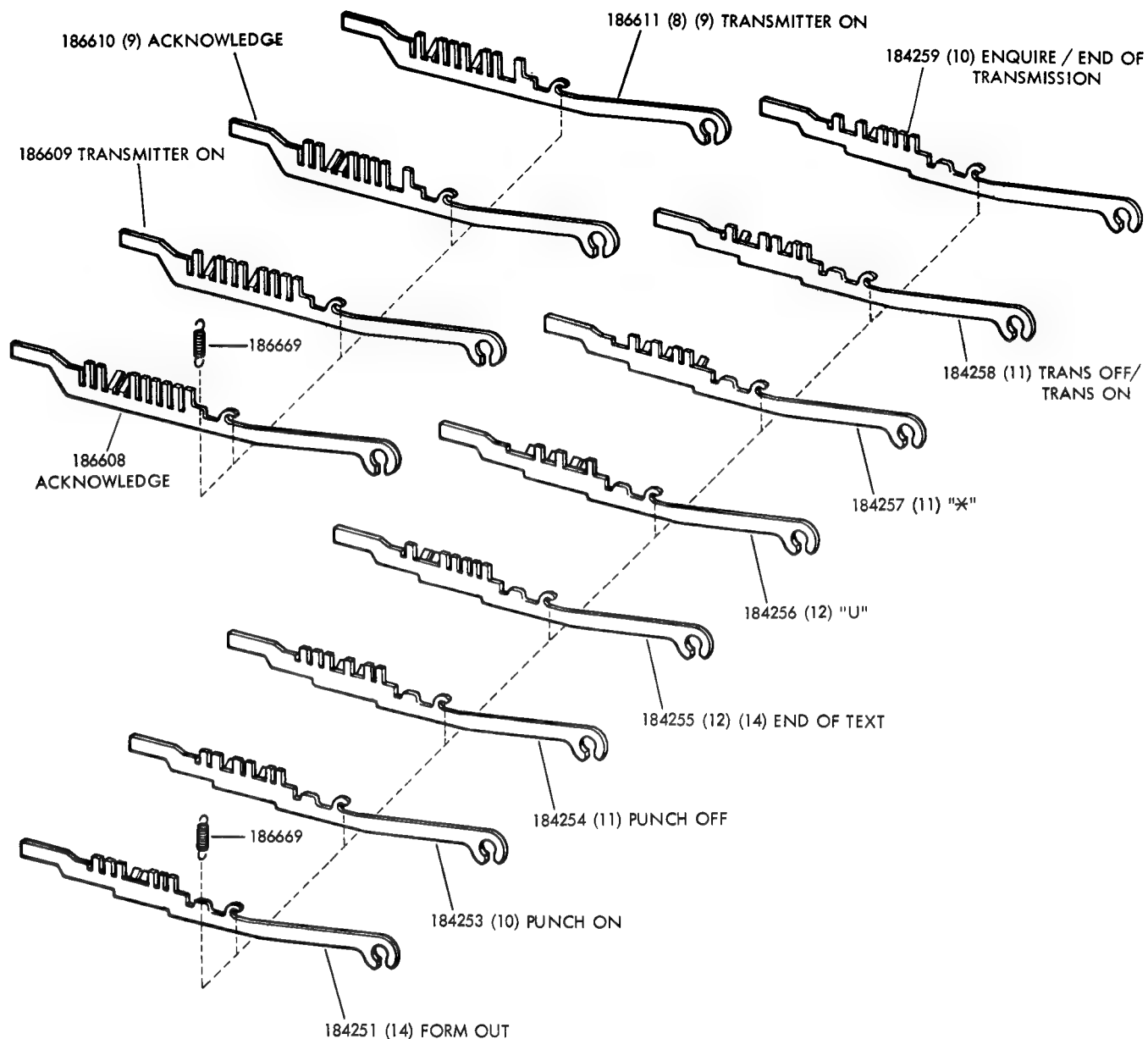
FIGURE 24. LINE FEED FUNCTION LEVER MECHANISM



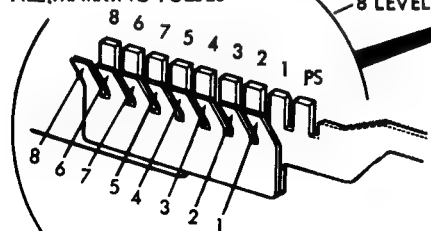
- ① Part of 182290 and 182291 Modification Kits. See Figure 14.
- ② ASCII 1967 Code
- ③ Peculiar to units equipped with automatic reader control
- ④ Peculiar to units having two-color printing

NOTE: Number or letter in parenthesis () indicates slot Function Lever may occupy.

FIGURE 25. FUNCTION LEVERS



BREAK THESE TINES ON
ALL MARKING PULSES



BREAK THESE TINES ON
ALL SPACING PULSES

Coding a 180801 Uncoded Universal Function Lever, To perform a special function or contact closure, is to be done before installation of part. For 8 level usage starting at pivoted end, the tines are numbered 8, 6, 7, 5, 4, 3, 2, 1 and PS, tines 6 and 7 are not in numerical order. Choose the code combination the lever is to respond to. Note marking pulses. Break off the straight tines whose number corresponds to the marking pulses. Break off the bent tines whose number corresponds to the spacing pulses.

PS-Refers to Print Suppression and is broken off when printing is desired.

On eight level codes, break both tines on position 8 unless respond to parity level (8th) is required.

Note: Number or letter in parenthesis () indicates slot Function Lever may occupy.

FIGURE 26. FUNCTION LEVERS (CONTINUED)

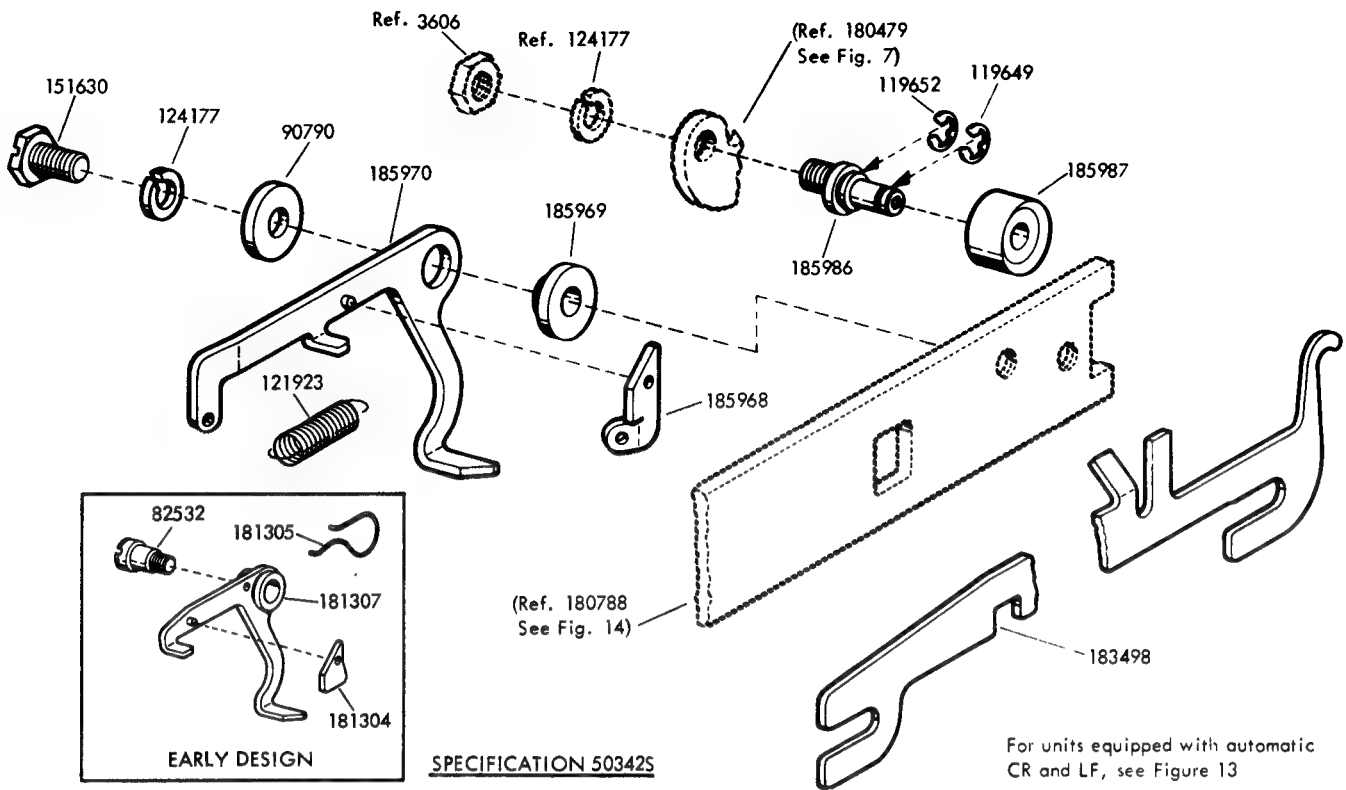


FIGURE 27. 185971 MODIFICATION KIT TO PROVIDE PRINTER WITH AN END-OF-LINE BELL TO RING ON APPROXIMATELY THE 62ND CHARACTER

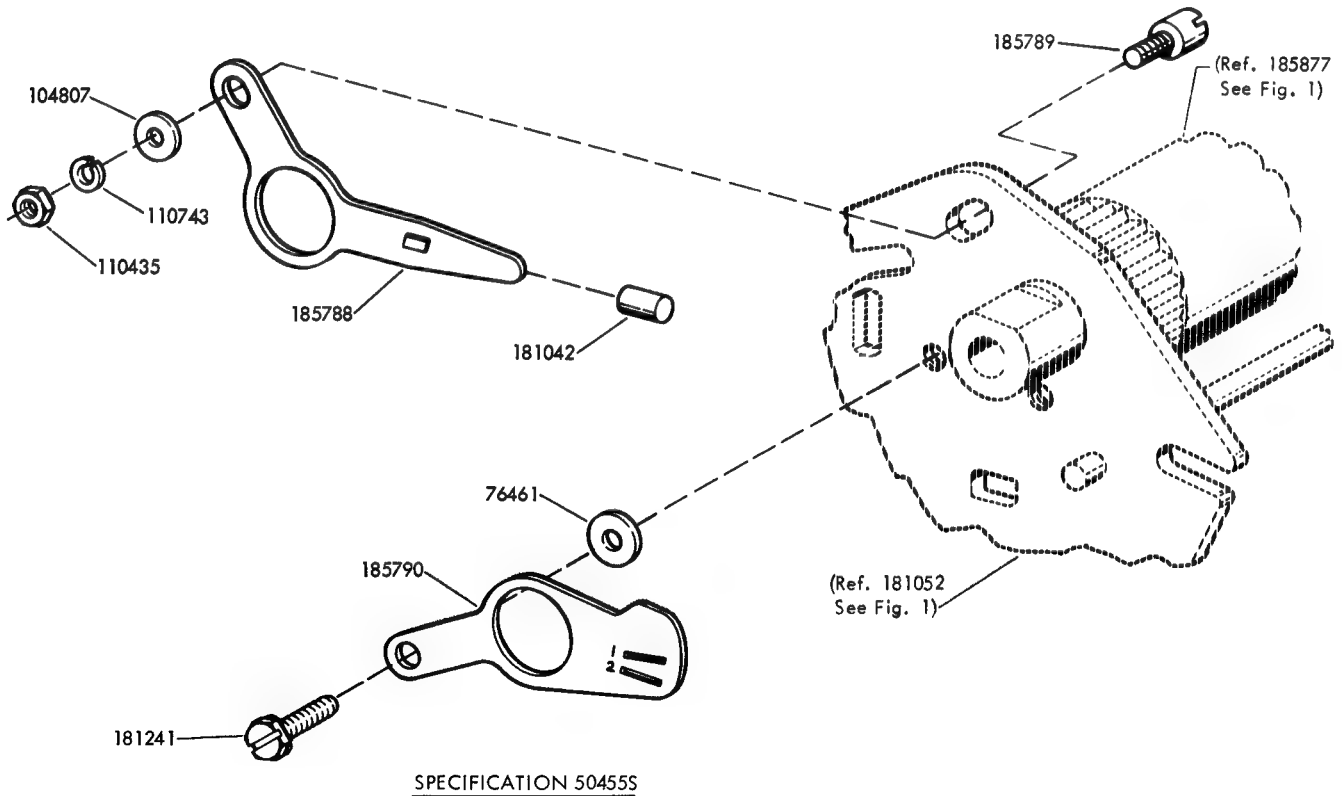


FIGURE 28. 185791 MODIFICATION KIT TO PROVIDE CONTROLLED SINGLE OR DOUBLE LINE FEED FEATURE ON FRICTION FEED PRINTER

| TYPEWHEEL | PART NO. | POSITION | CHARACTER | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|----------|----------|-----------|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MA | 180598 | UNSHIFT | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MB | 182280 | UNSHIFT | 1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MC | 182293 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | @ | . | MC | & | . | - | I | A | B | C | D | E | F | G | H | I | : |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MD | 183588 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ME | 183599 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MF | 183922 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MG | 184685 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MH | 184686 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | - | : | & | + | A | B | C | D | E | F | G | H | I | : | / | S |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MJ | 184688 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MK | 184689 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ML | 184690 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MN | 184691 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP | 184693 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MR | 184695 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MS | 184690 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MT | 184694 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | @ | . | MC | & | . | - | I | A | B | C | D | E | F | G | H | I | : |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MU | 184692 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | @ | . | MC | & | . | - | I | A | B | C | D | E | F | G | H | I | : |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MV | 184696 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | - | : | & | + | A | B | C | D | E | F | G | H | I | : | / | S |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW | 184697 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | - | : | & | + | A | B | C | D | E | F | G | H | I | : | / | S |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MY | 184698 | UNSHIFT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | - | : | & | + | A | B | C | D | E | F | G | H | I | : | / | S |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MZ | 184951 | UNSHIFT | J | K | M | S | 6 | P | Q | 9 | @ | . | MC | & | . | - | I | A | B | T | D | V | W | G | H | Z | < | # |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | 184952 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NB | 184953 | UNSHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SHIFT | | | | | | | | | | | | | | | | | | | | | | | | | | |

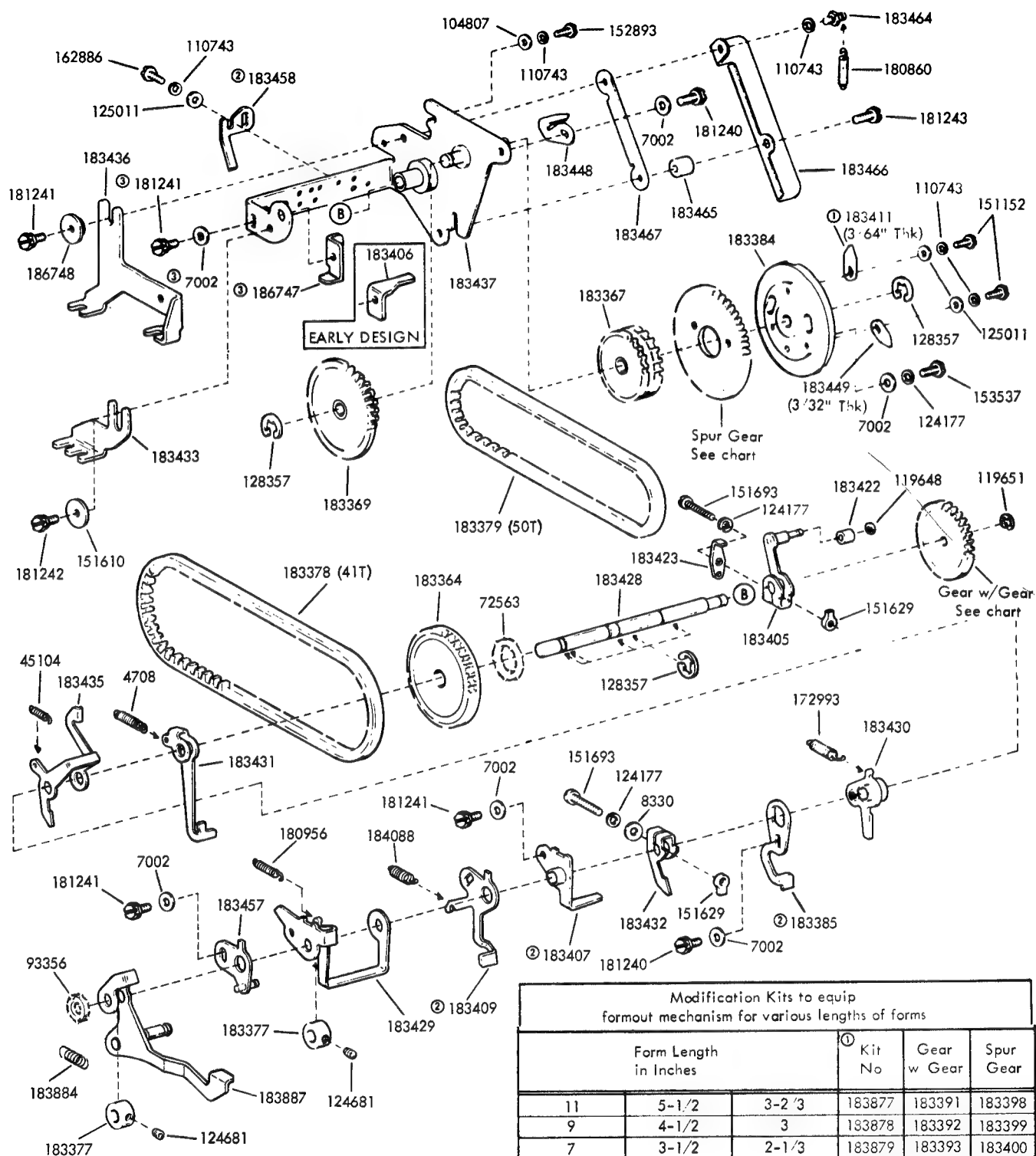
FIGURE 29. TYPEWHEEL CHART

[illegible]

[illegible]

Notes: Only deviations from the basic typewheel "MA" are shown. A blank space indicates that the character for that position is identical to the basic typewheel. Solid square (■) indicates printing is suppressed in this position.

FIGURE 31. TYPEWHEEL CHART (CONTINUED)



- ① The required number of 183411 Cam Plates and mounting hardware are furnished with each kit (Specification 504105)
- ② Early design parts. See Figure 33 for later design.
- ③ These parts are factory adjusted and fixturized. Should they be loosened, remove and discard them. Then readjust.

| Modification Kits to equip formout mechanism for various lengths of forms | | | | | |
|---|-------|-------|----------|-------------|-----------|
| Form Length in Inches | | | ① Kit No | Gear w Gear | Spur Gear |
| 11 | 5-1/2 | 3-2/3 | 183877 | 183391 | 183398 |
| 9 | 4-1/2 | 3 | 183878 | 183392 | 183399 |
| 7 | 3-1/2 | 2-1/3 | 183879 | 183393 | 183400 |
| 8 | 4 | 2-2/3 | 183880 | 183394 | 183401 |
| 8 1/2 | — | 2-5/6 | 183881 | 183395 | 183402 |
| 10 | 5 | 3-1/3 | 183882 | 183396 | 183403 |
| 6 | — | — | 183883 | 183397 | 183404 |

FIGURE 32. FORMOUT MECHANISM - SPROCKET FEED

FIGURE 33. LATER DESIGN FORMOUT MECHANISM - SPROCKET FEED



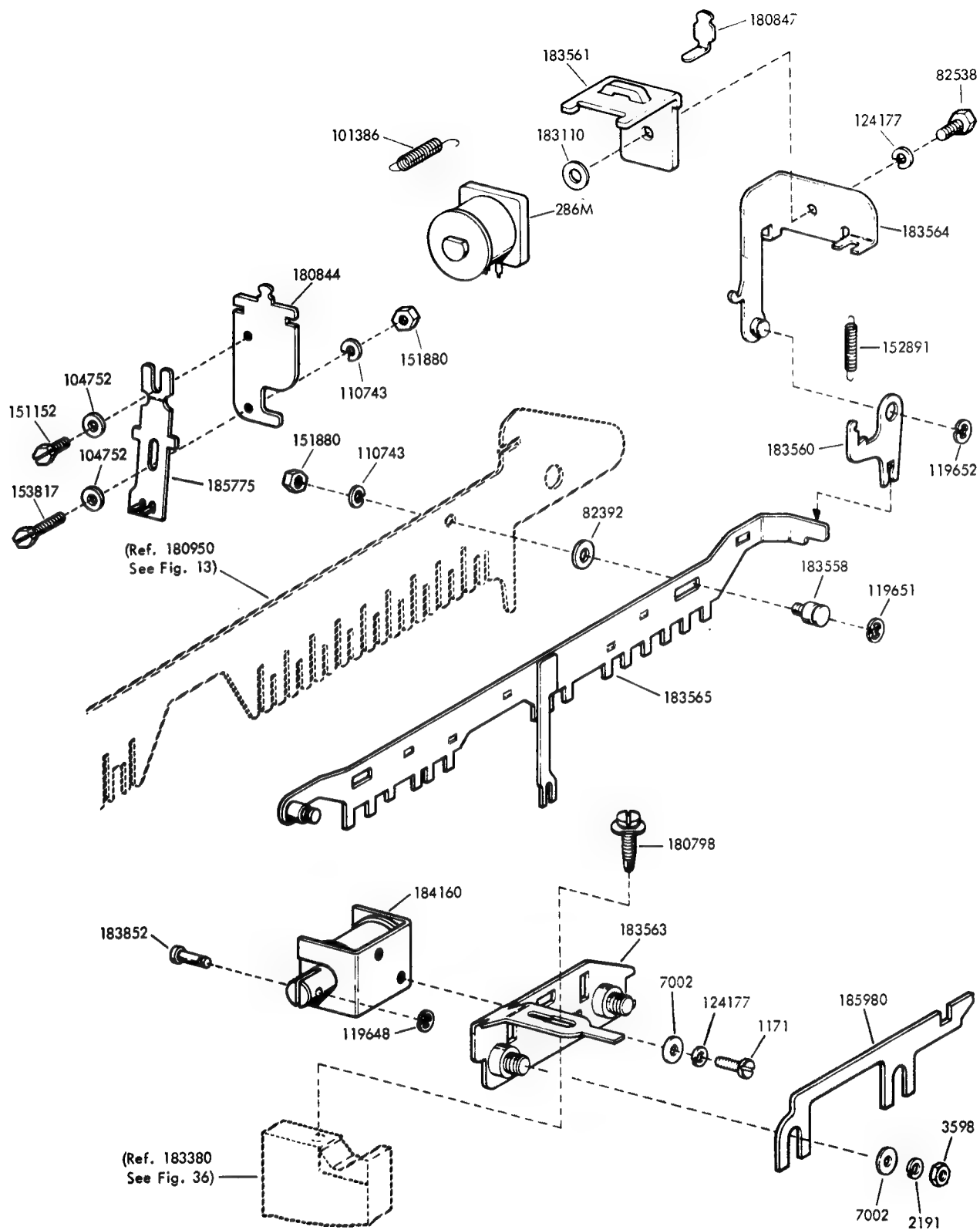


FIGURE 35. SOLENOID PRINT-NONPRINT RESET MECHANISM

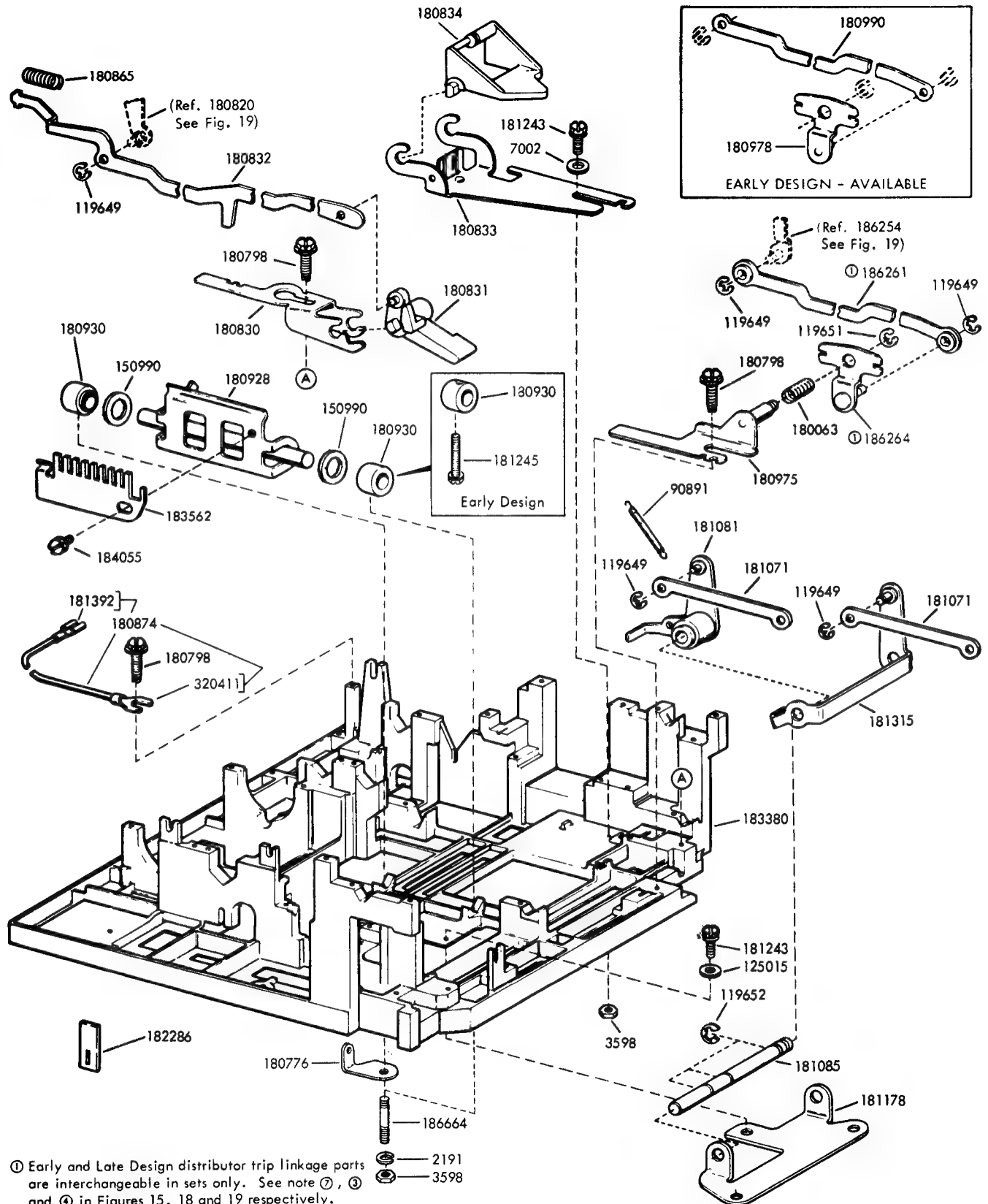


FIGURE 36. BASE

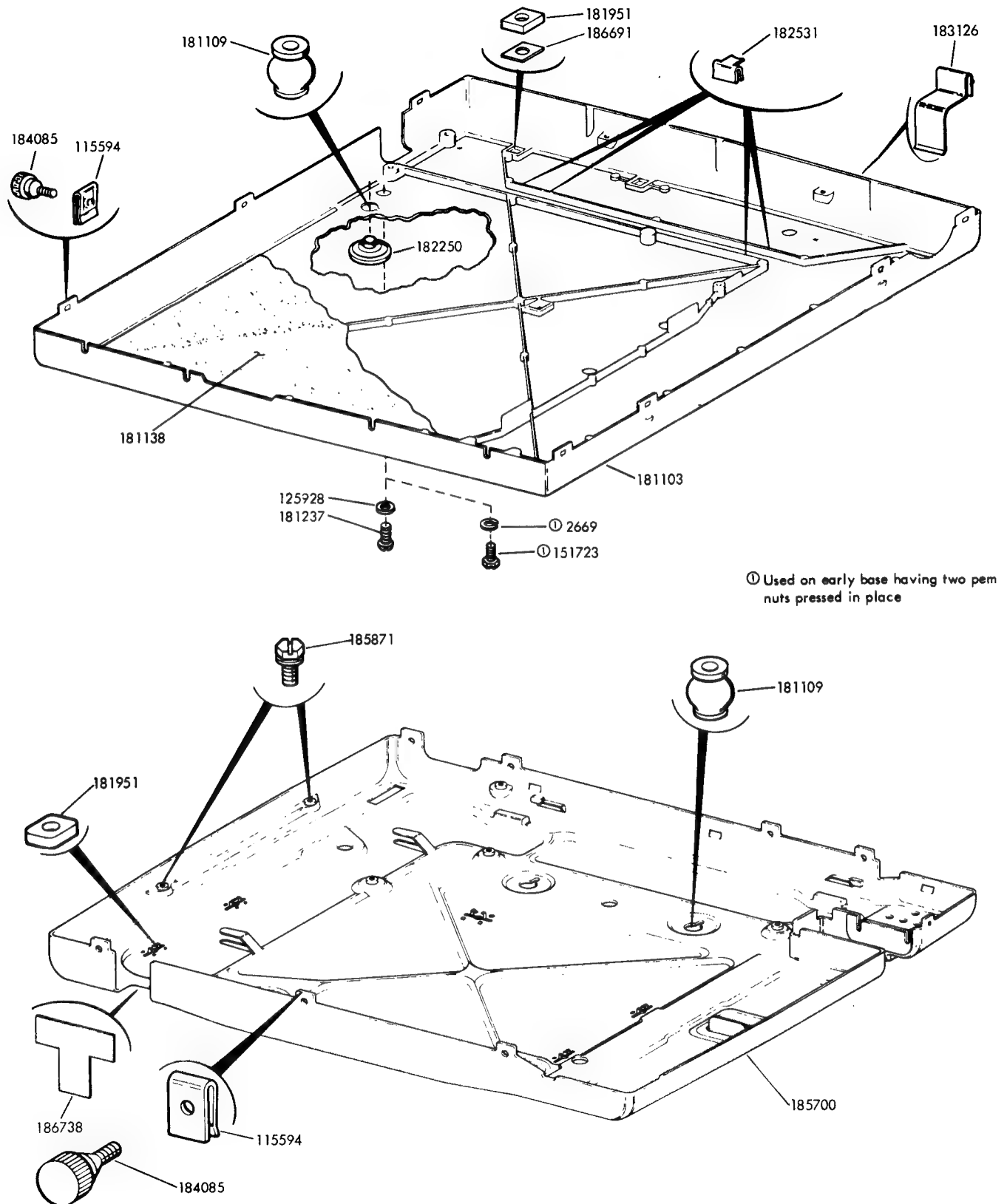
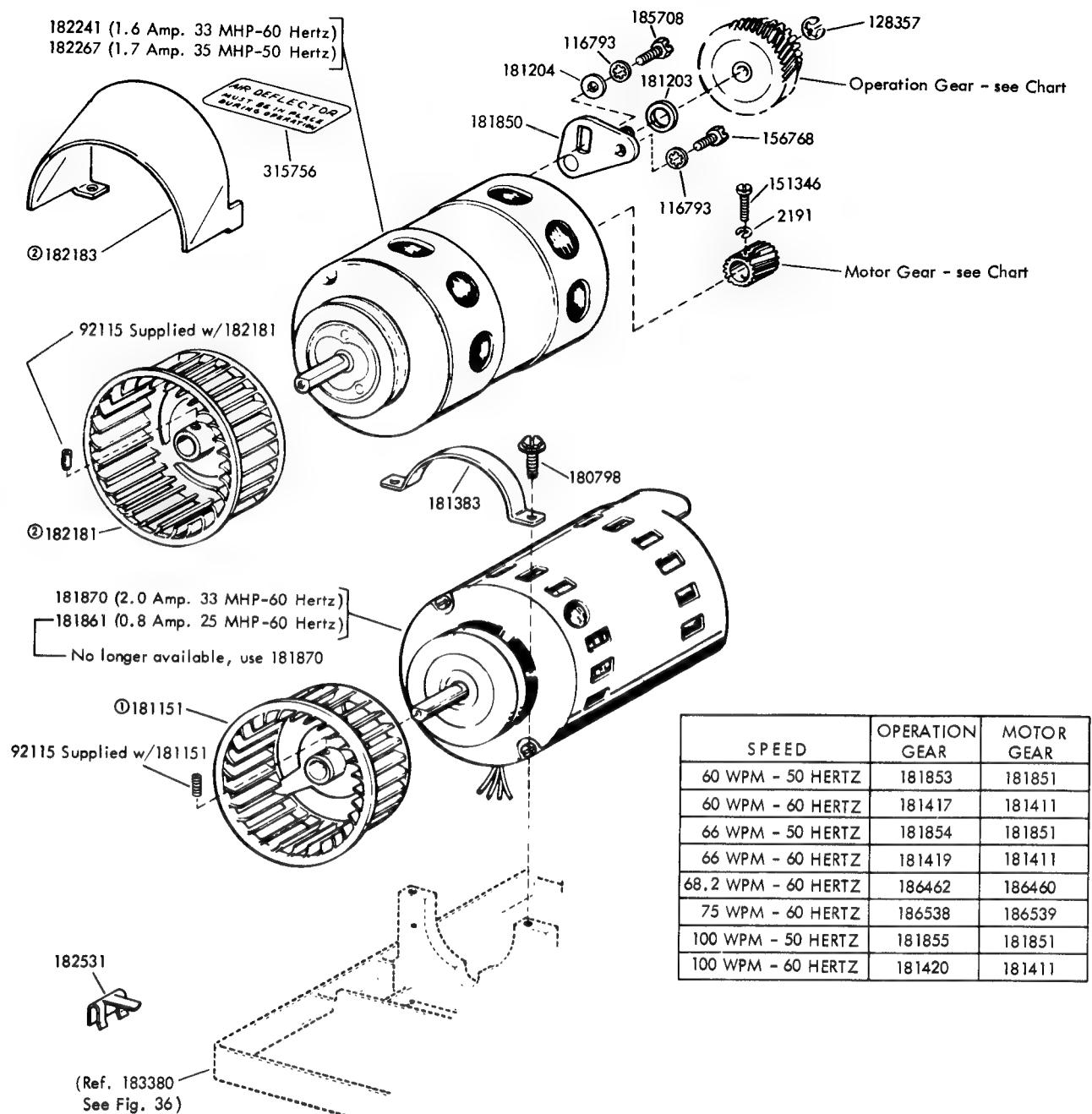


FIGURE 37. SUB BASES



① The 181151 Fan (2-1/2" Dia.) is used with the 181870 and 182241 Motors.

② The 182181 Fan (3" Dia.), and the 182183 Air Deflector are used with the 182267 Motor.

FIGURE 38. MOTORS

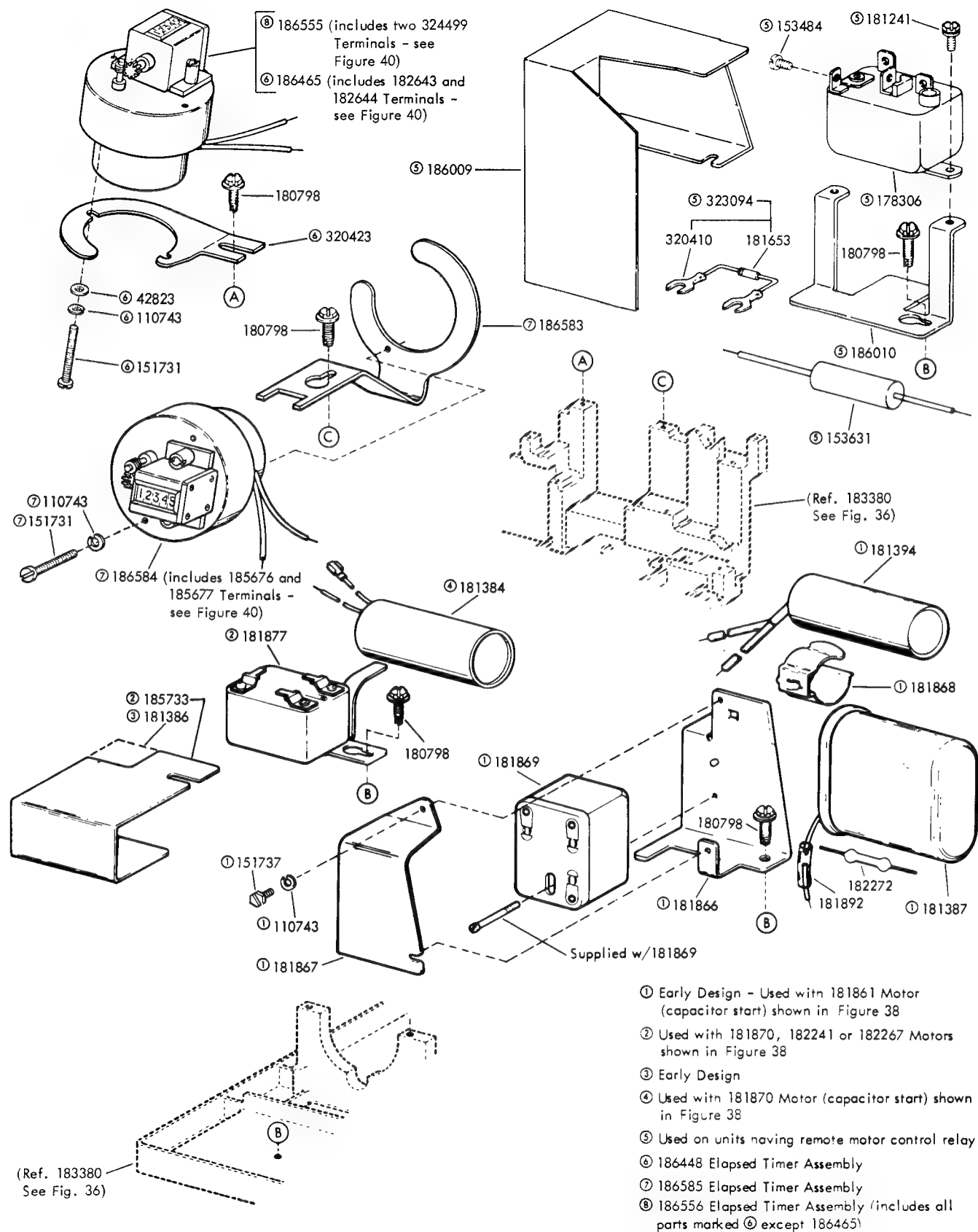


FIGURE 39. ELECTRICAL COMPONENTS

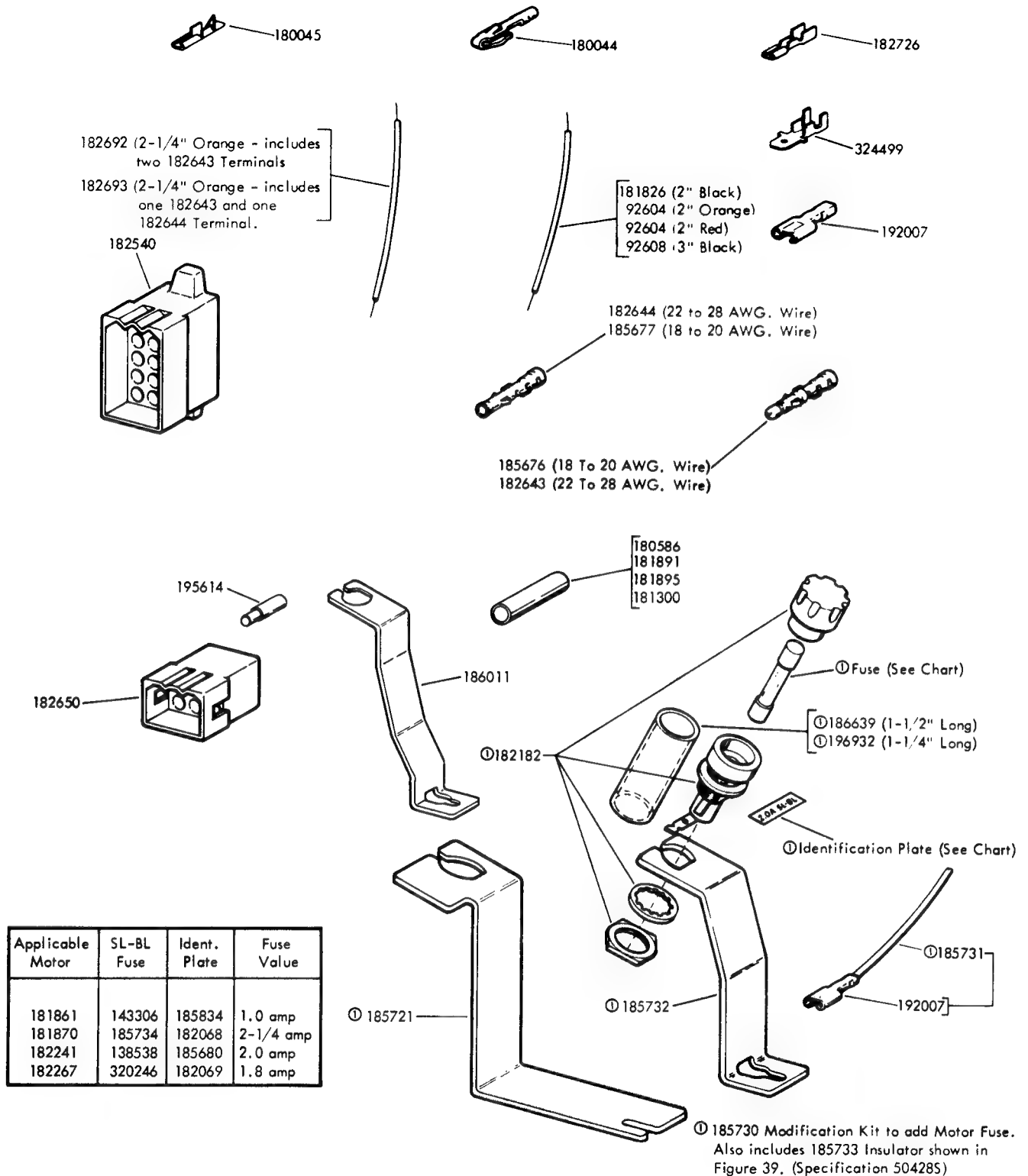


FIGURE 40. CABLE COMPONENTS

NUMERICAL INDEX

| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|-------------|--|-------------|------------------------------|-------------|---|
| 272M | Coil, Magnet 22 | 72468 | Spring 23 | 107116 | Lockwasher 6 |
| 276M | Coil, Magnet 21 | 72509 | Lockwasher 18 | 110435 | Nut, 4-40 Hex 26 |
| 279M | Coil, Magnet 21 | 72563 | Washer, Felt 30 | 110743 | Lockwasher 4,6,7,9,10,14, 15,17,20,21,22,23,26,30, 32,36 |
| 286M | Coil, Magnet 32 | 74547 | Collar 13 | 111410 | Washer, Flat 9,19 |
| 295M | Coil, Magnet 21 | 74700 | Spring 23 | 111640 | Screw, 2-56 x 7/32 Fil 3 |
| 300M | Coil, Magnet 21 | 74701 | Spring 10,12 | 112127 | Hinge 17 |
| 1156 | Screw, 2-56 x 9/16 Fil 31 | 74716 | Bushing, Insulating 17 | 112128 | Retainer 17 |
| 1164 | Screw, 2-56 x 3/16 Fil 5 | 74722 | Washer, Flat 4 | 112620 | Screw, 4-40 x 1/2 Hex 16 |
| 1171 | Screw, 6-32 x 3/16 Fil 32 | 76099 | Washer, Flat 17 | 112626 | Nut, 10-32 Hex 6 |
| 1178 | Screw, 2-56 x 7/16 Fil 31 | 76422 | Spring 13,22 | 112627 | Nut, 2-56 Hex 31 |
| 1210 | Screw, 2-56 x 5/8 Fil 5 | 76461 | Washer, Flat 21,26 | 112630 | Spring 3 |
| 2034 | Washer, Flat 6,10,20,23 | 78103 | Screw, 6-40 x 1-3/16 Hex 21 | 112634 | Spring 6 |
| 2167 | Ball, Bearing 9 | 80945 | Spring 13 | 113384 | Plate 17 |
| 2191 | Lockwasher 2,7,9,11,12, 19,22,32,33,35 | 81726 | Terminal 17 | 114107 | Spring 10 |
| 2605 | Spring 20 | 81731 | Spring 8,20 | 115594 | Nut, Speed 34 |
| 2669 | Lockwasher 6,34 | 82392 | Shim, .004" Thk 14,32 | 116793 | Lockwasher 35 |
| 3598 | Nut, 6-40 Hex 2,4,6,7,8, 9,10,14,16,17,18,19,20, 21,22,32,33 | 82463 | Spring 31 | 119421 | Washer, Flat 2,5 |
| 3599 | Nut, 6-40 Hex 4,6,7,9,15, 20 | 82532 | Screw, 6-40 Shoulder 26 | 119648 | Ring, Retaining 8,10,19, 22,30,32 |
| 3606 | Nut, 6-40 Hex 8,26 | 82538 | Screw, 6-40 x 5/16 Hex 21,32 | 119649 | Ring, Retaining 3,4,7,8, 9,10,13,15,16,17,20,26,33 |
| 3608 | Spring 6 | 82547 | Insulator, .094" Thk 17 | 119651 | Ring, Retaining 2,3,4,6, 7,8,10,11,12,14,23,30,32, 33 |
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| 181954 | Typewheel, NJ 6 | 182313 | Bar, No.8-4 Code 14 | 183304 | Knob, Sprocket 4 |
| 181955 | Washer, Pulley 6 | 182314 | Bar, No.8-5 Code 14 | 183308 | Plate, Right 4,5 |
| 191956 | Drum, Spacing 6 | 182315 | Bar, No.8-6 Code 14 | 183309 | Plate, Left 4,5 |
| 181957 | Belt, 151T 6 | 182316 | Bar, No.7 Code 14 | 183310 | Platen 4 |
| 181983 | Screw, 6-40 x 5/8 Spl 15 | 182317 | Bar, No.8 Code 14 | 183313 | Bar 4 |
| 182015 | Lever Assembly Clutch Trip 1,13 | 182318 | Bar, R Code 14 | 183314 | Guide, Right Paper 4 |
| 182037 | Switch Assembly, Contact 15 | 182330 | Bar, No.8-A Code 14 | 183315 | Guide, Left Paper 4 |
| 182047 | Clutch Assembly 11,12 | 182461 | Bracket, Upstop 10 | 183316 | Bracket 4 |
| 182056 | Modification Kit 6 | 182531 | Clip, Speed 34,35 | 183317 | Bracket, Right 4 |
| 182068 | Plate, Identification 37 | 182540 | Connector, 15 Pt Plug Type 22,37 | 183318 | Bracket, Left 4 |
| 182069 | Plate, Identification 37 | 182643 | Terminal, Plug Type 22, 36,37 | 183319 | Detent, 21T 4 |
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| 182181 | Fan 35 | 182726 | Terminal, Receptacle Type 37 | 183324 | Arm, Reverse 6 |
| 182182 | Holder, Fuse 37 | 182693 | Jumper, 1-1/4" Orange 37 | 183326 | Guide, Bracket 6,7 |
| 182183 | Deflector, Air 35 | 182894 | Link 21 | 183330 | Guide 6 |
| 182232 | Roller 19 | 182895 | Plate w/Bushing 21 | 183335 | Guide, Left 4 |
| 182237 | Pawl, Function 15 | 182898 | Arm 21 | 183336 | Guide, Right 4 |
| 182239 | Lever, Latch 20 | 182900 | Link w/Post 21 | 183338 | Knob w/Pin 4 |
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| 182244 | Lever, Cam Follower 20 | 182955 | Link, Support 21 | 183341 | Wheel, Idler 4 |
| 182250 | Foot, Rubber 34 | 182957 | Plate 27 | 183346 | Ring, Retaining 4 |
| 182262 | Arm, Stop 20 | 182958 | Spacer 21 | 183349 | Washer, Felt 4 |
| 182263 | Bracket 20 | 182960 | Plate 21 | 183351 | Stud, Idler 4 |
| 182264 | Stud 20 | 182961 | Sleeve 21 | 183352 | Guide, Paper 4 |
| 182267 | Motor, 50 Cycle Synchronous 35,36,37 | 182964 | Arm Assembly, Drive 1,21 | 183356 | Washer, Supporting 4 |
| 182268 | Lever, Cam Follower 20 | 183052 | Bracket, Contact 21 | 183357 | Spring, Compression 4 |
| 182269 | Modification Kit 20 | 183053 | Stiffener, Front 21 | 183358 | Plate 5 |
| 182272 | Resistor, 10 Ohm 36 | 183054 | Stiffener, Rear 21 | 183360 | Arm 16 |
| 182276 | Lever, Answer-Back Trip 20,22 | 183055 | Spring, Contact 21 | 183361 | Disc 12 |
| | | 183056 | Spring, Contact 21 | 183364 | Pulley w/20T Gear, 30T 30 |
| | | 183057 | Insulator, .031" Thk 21 | 183367 | Pulley w/28T Gear, 21T 30 |
| | | 183058 | Insulator, .062" Thk 21 | 183369 | Pulley w/35T Gear, 21T 30 |
| | | | | 183371 | Bearing, Sleeve 12 |
| | | | | 183372 | Lever, Shoe Release 12 |
| | | | | 183373 | Disc, 6 Stop 12 |
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| 183381 | Washer, Flat 12 | 183443 | Bracket 5 | 183879 | Modification Kit 30 |
| 183382 | Shaft, Main 12 | 183444 | Contact Assembly 31 | 183880 | Modification Kit 30 |
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| 183388 | Pawl, Function 15 | 183454 | Retainer, Spring 4 | 183887 | Bail, L.F. 30 |
| 183389 | Arm 12 | 183457 | Plate 30 | 183922 | Typewheel 27 |
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| 184958 | Typewheel, NG 28 | 185733 | Insulator 36,37 | 186248 | Shaft 12 |
| 184959 | Typewheel, NH 28 | 185734 | Fuse, SL-BL 2-1/4 Amp 37 | 186249 | Cam, Selector 18 |
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| 184966 | Typewheel, NT 28 | 185796 | Bracket 2 | 186264 | Lever w/Stud 33 |
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| 184970 | Typewheel, NX 28 | 185871 | Screw w/Lockwasher, 8-32 x 3/8 Hex 34 | 186313 | Lever 24 |
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| 184987 | Typewheel, PW 29 | 185996 | Spacer 31 | 186539 | Gear 35 |
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| 184994 | Typewheel, RD 29 | | | 186583 | Plate 36 |
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| 186609 | Lever 25 | 186734 | Insulator 17 | 198670 | Screw w/Lockwasher, 6-40 x 5/16 Hex 2,3,4,5,10 |
| 186610 | Lever 25 | 186738 | Insulator 34 | 199440 | Screw, 5-40 x 4/8 Fil 11, 12 |
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| 186664 | Post 33 | 186796 | Lever, Function 24 | 320411 | Terminal, Spade Type 33 |
| 186665 | Set of Parts 2 | 192007 | Terminal, Tab Type 37 | 320423 | Plate 36 |
| 186669 | Spring 3,18,24,25 | 194956 | Spring 12 | 323094 | Diode 36 |
| 186691 | Insert 34 | 194987 | Screw, 8-32 x 3/8 Hex 5, 16 | 324499 | Terminal 36,37 |
| 186695 | Link 7 | 195614 | Pin, Key 37 | 327323 | Ring, Retaining 16 |
| 186696 | Link w/Stud 7 | 196932 | Sleeve, 7/16 ID x 1-1/4" Lg Insulating 37 | | |
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33 CALL CONTROL UNIT (UCC)

PARTS

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**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl

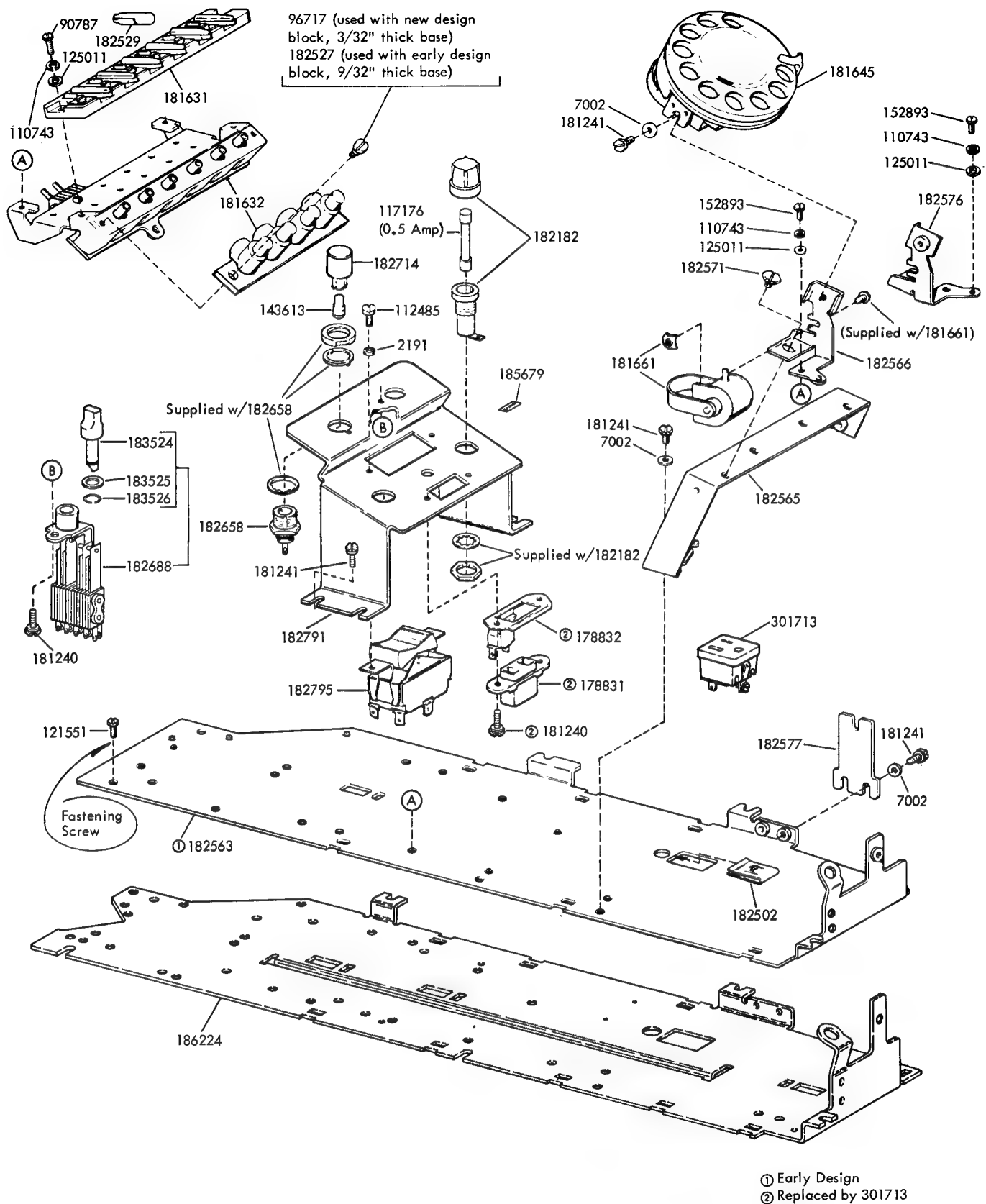


FIGURE 1. BASE PLATE COMPONENTS FOR USE WITH ROTARY DIAL

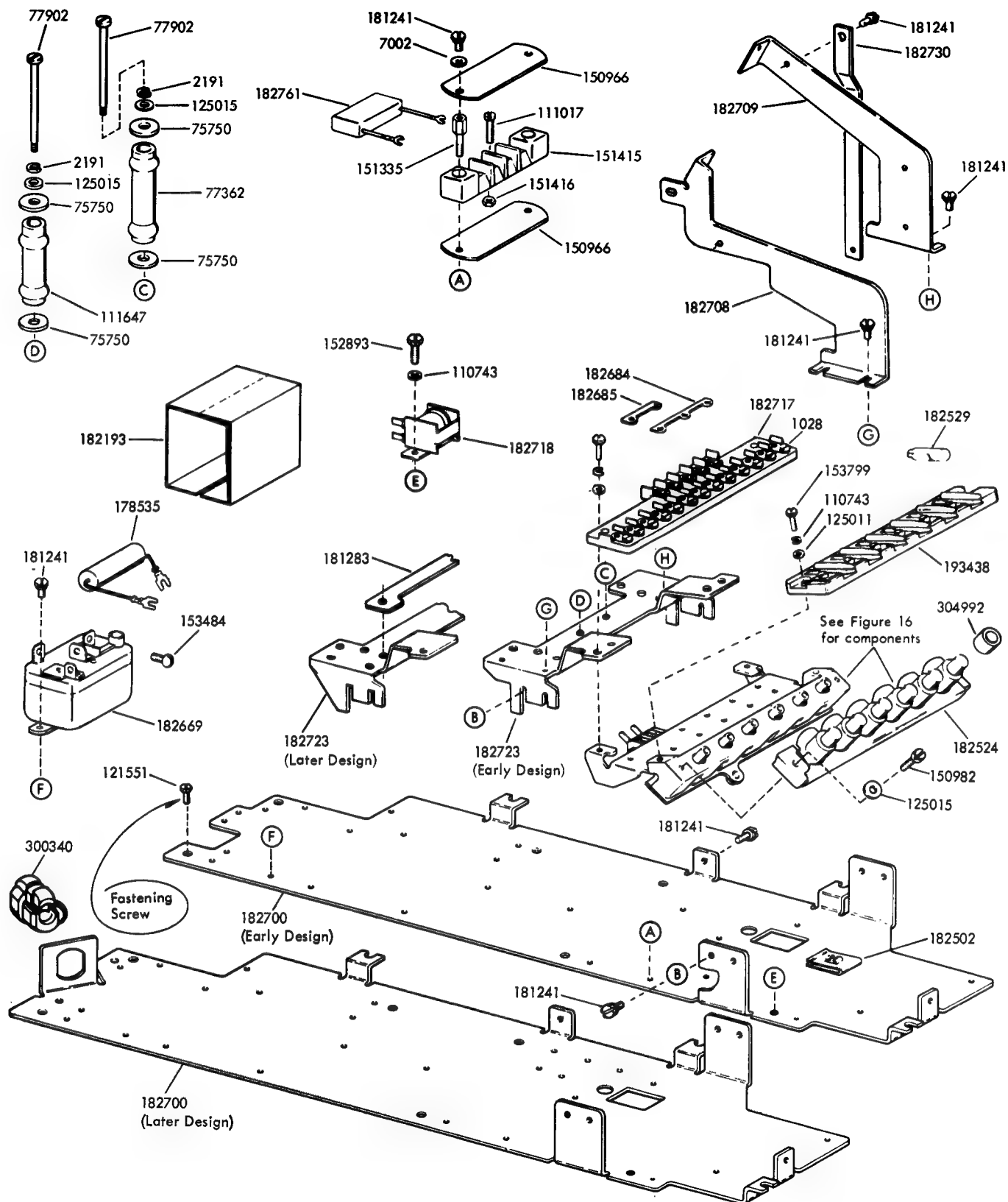


FIGURE 2. BASE PLATE COMPONENTS FOR USE WITH TOUCH-TONE OR CARD DIALING

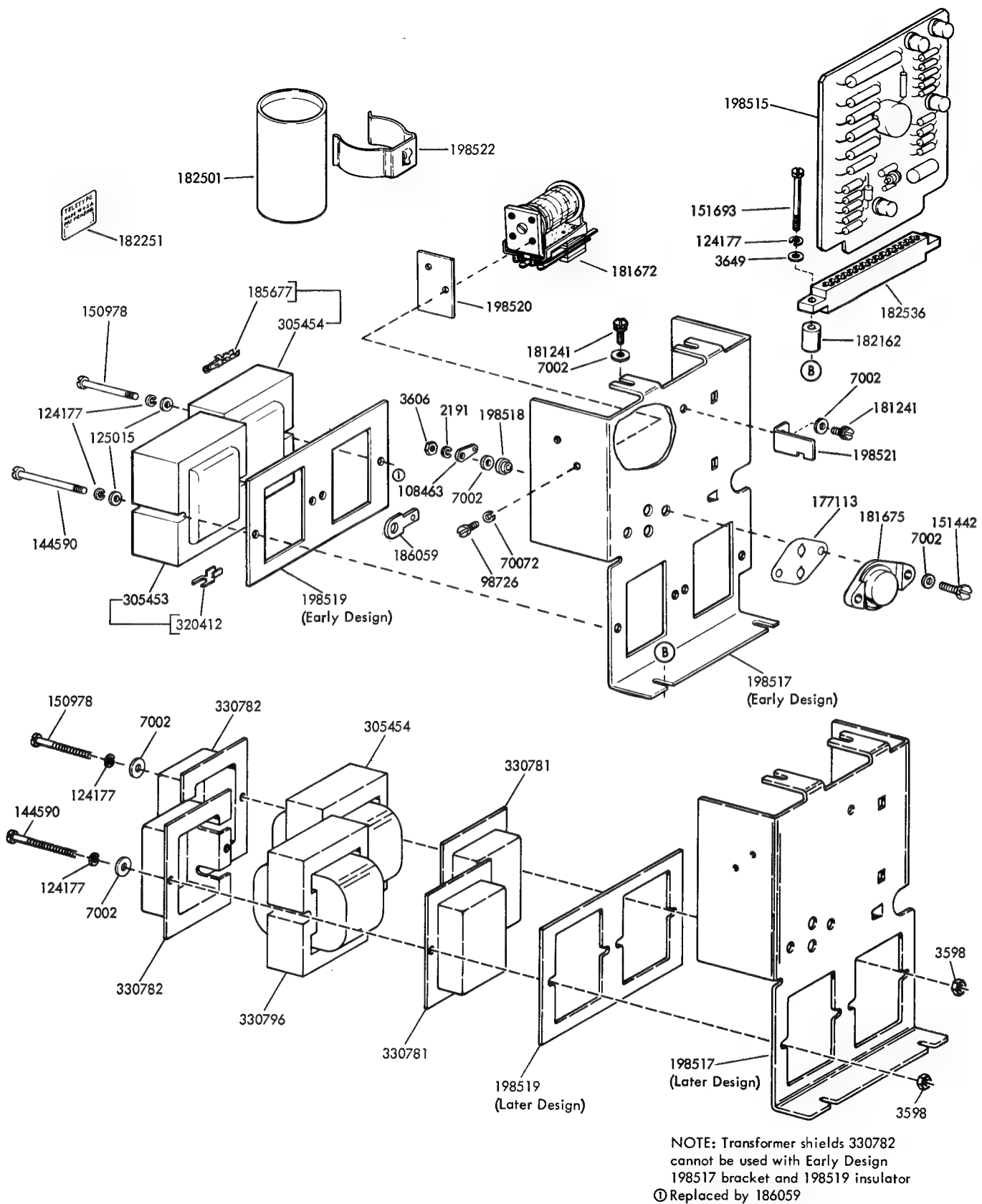


FIGURE 3. ELECTRICAL COMPONENTS FOR USE WITH ROTARY DIAL

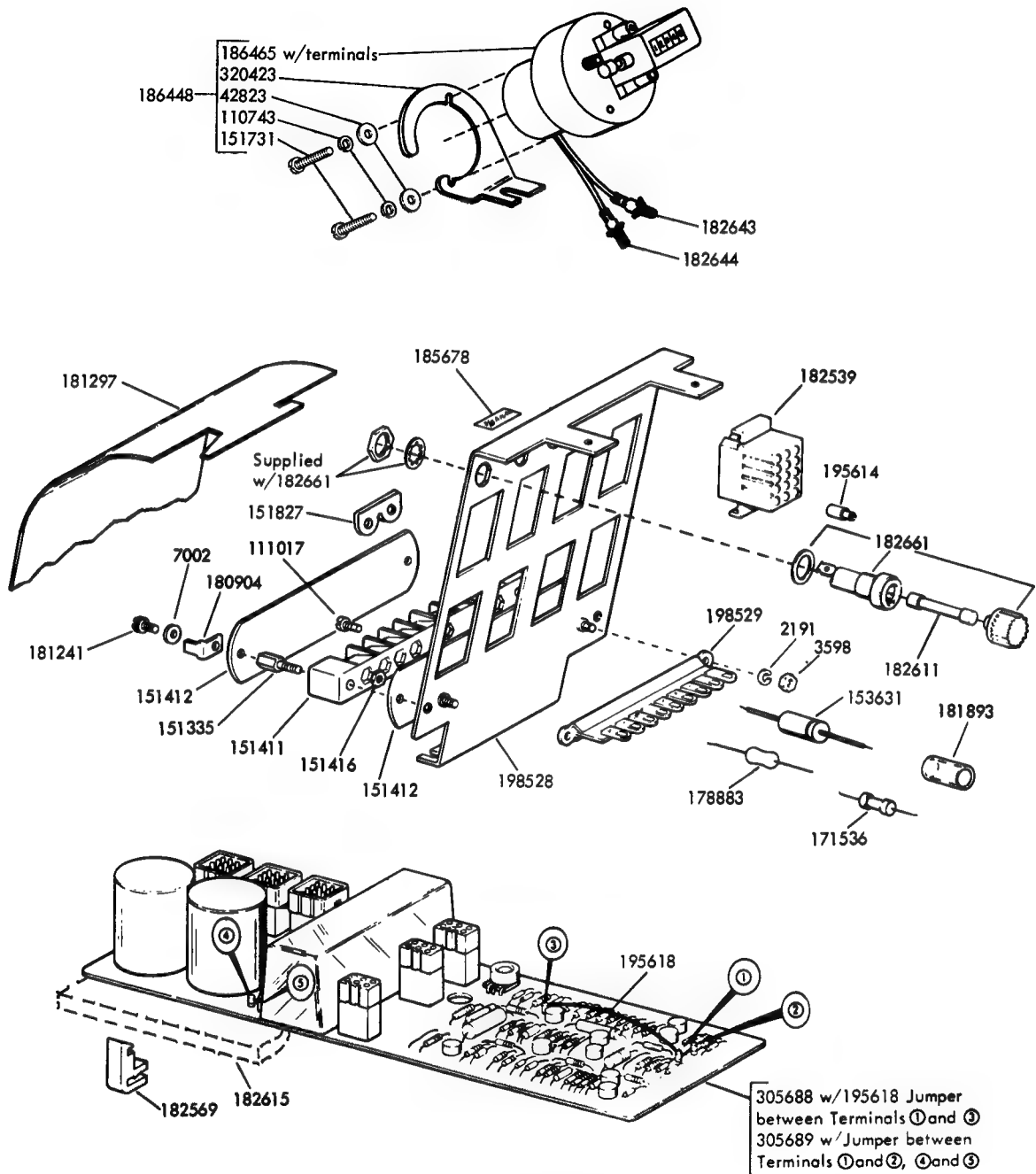


FIGURE 4. ELECTRICAL COMPONENTS FOR USE WITH ROTARY DIAL (Continued)

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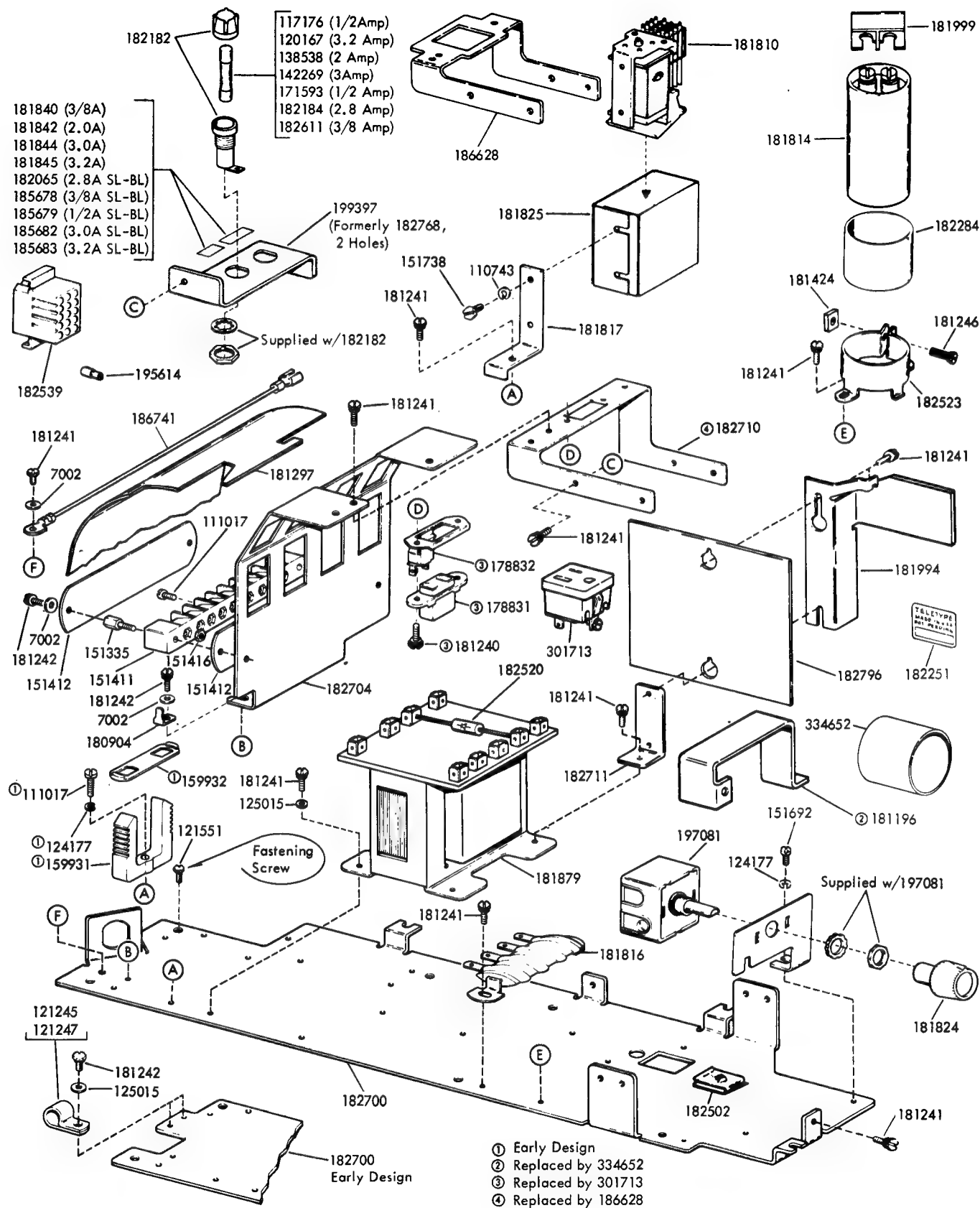


FIGURE 6. BASE PLATE AND ELECTRICAL COMPONENTS FOR DC SIGNAL PRIVATE LINE

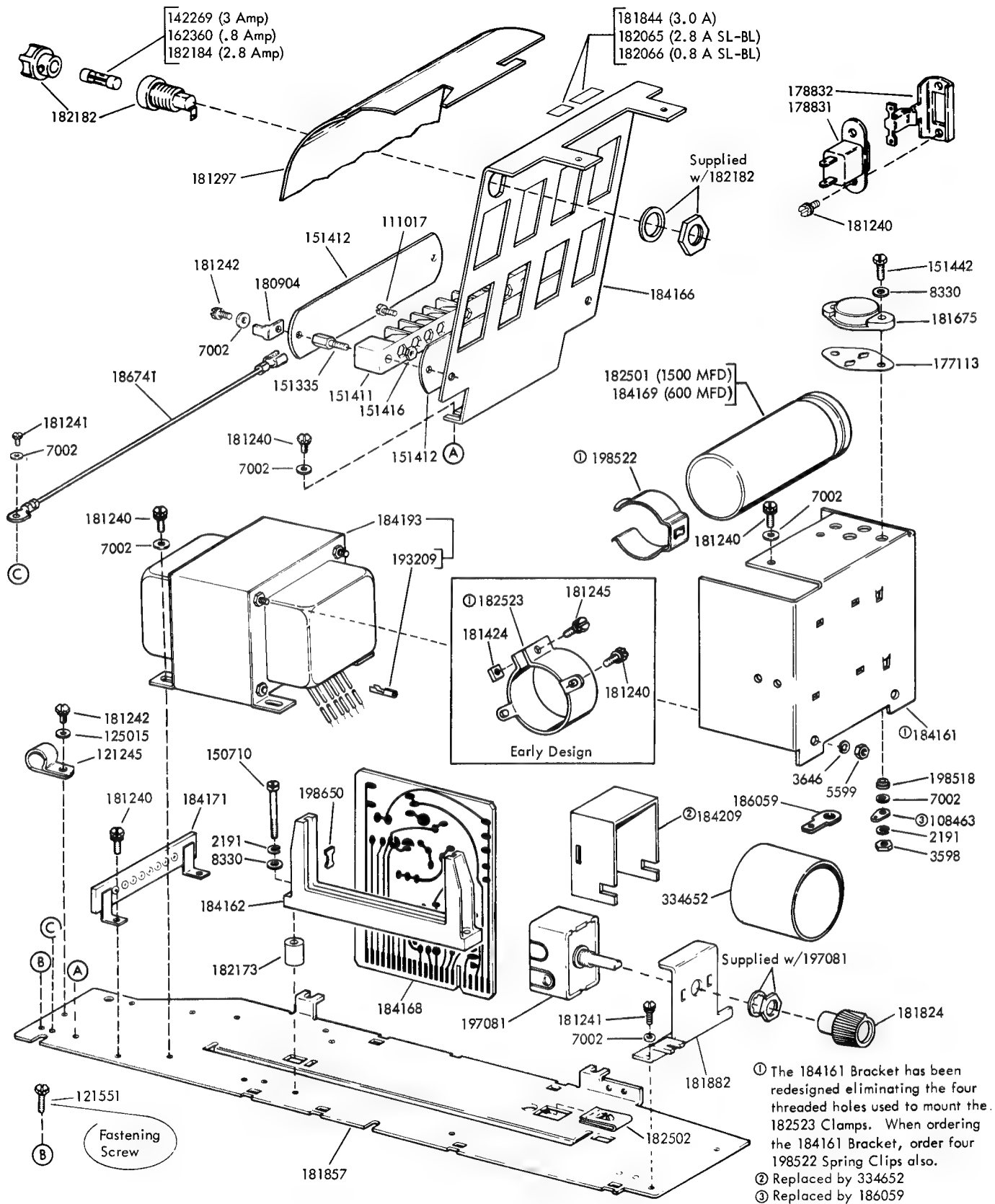


FIGURE 7. ELECTRICAL COMPONENTS FOR COMPUTER CONTROL PRIVATE LINE

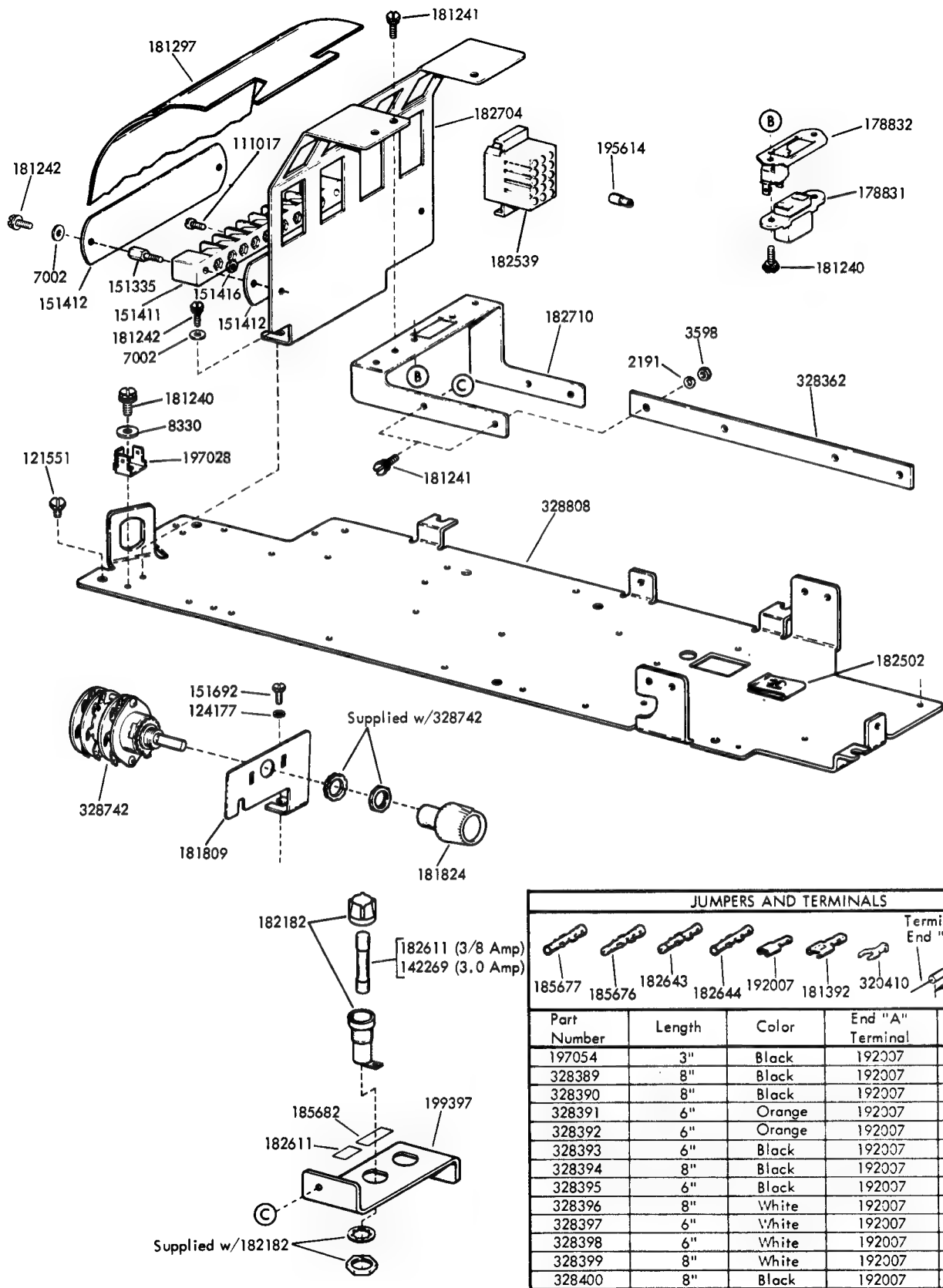


FIGURE 8. BASE PLATE AND ELECTRICAL COMPONENTS FOR USE WITH STATION CONTROLLERS



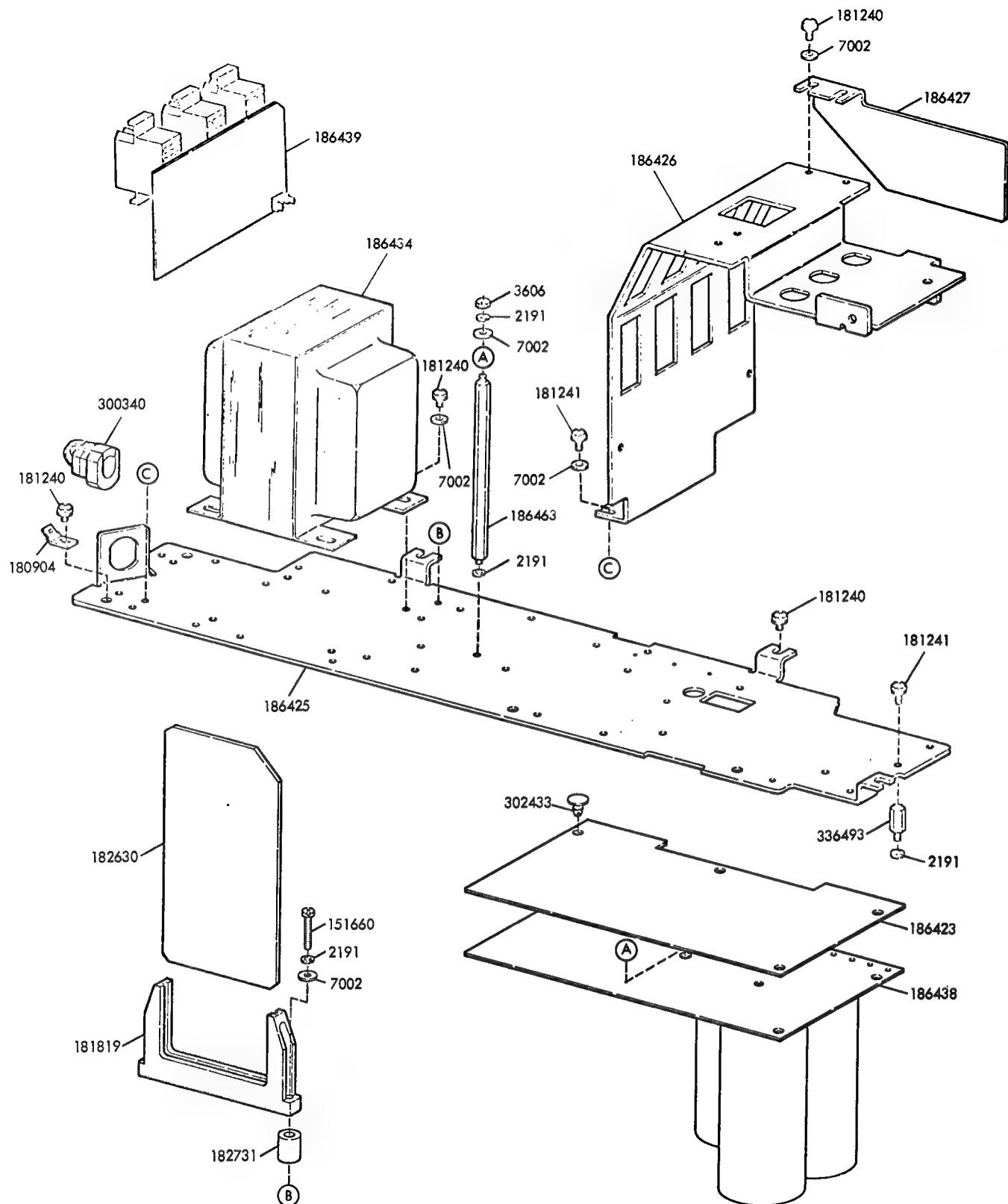


FIGURE 10. BASE PLATE AND ELECTRICAL COMPONENTS

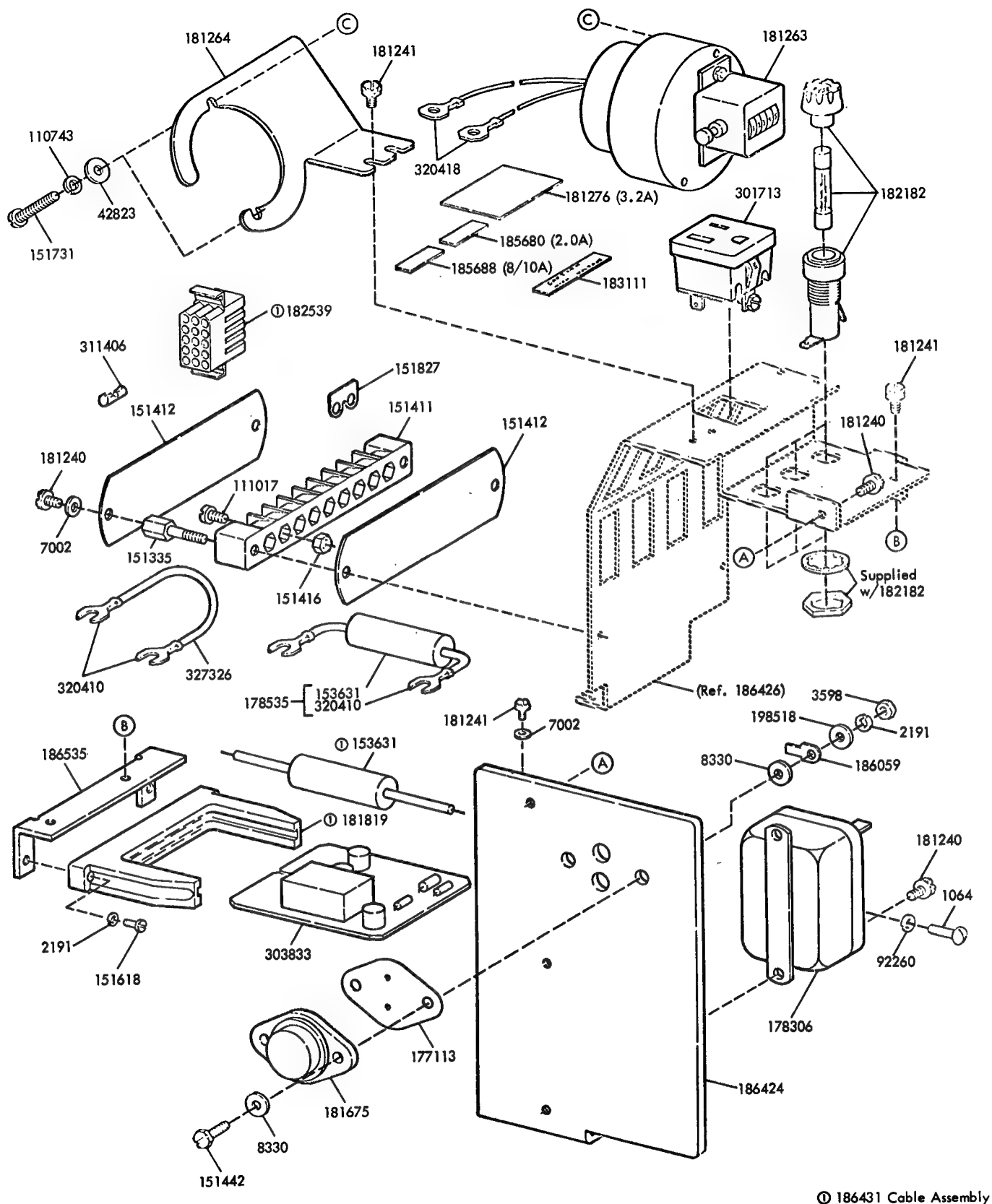


FIGURE 11. BASE PLATE AND ELECTRICAL COMPONENTS (Continued)

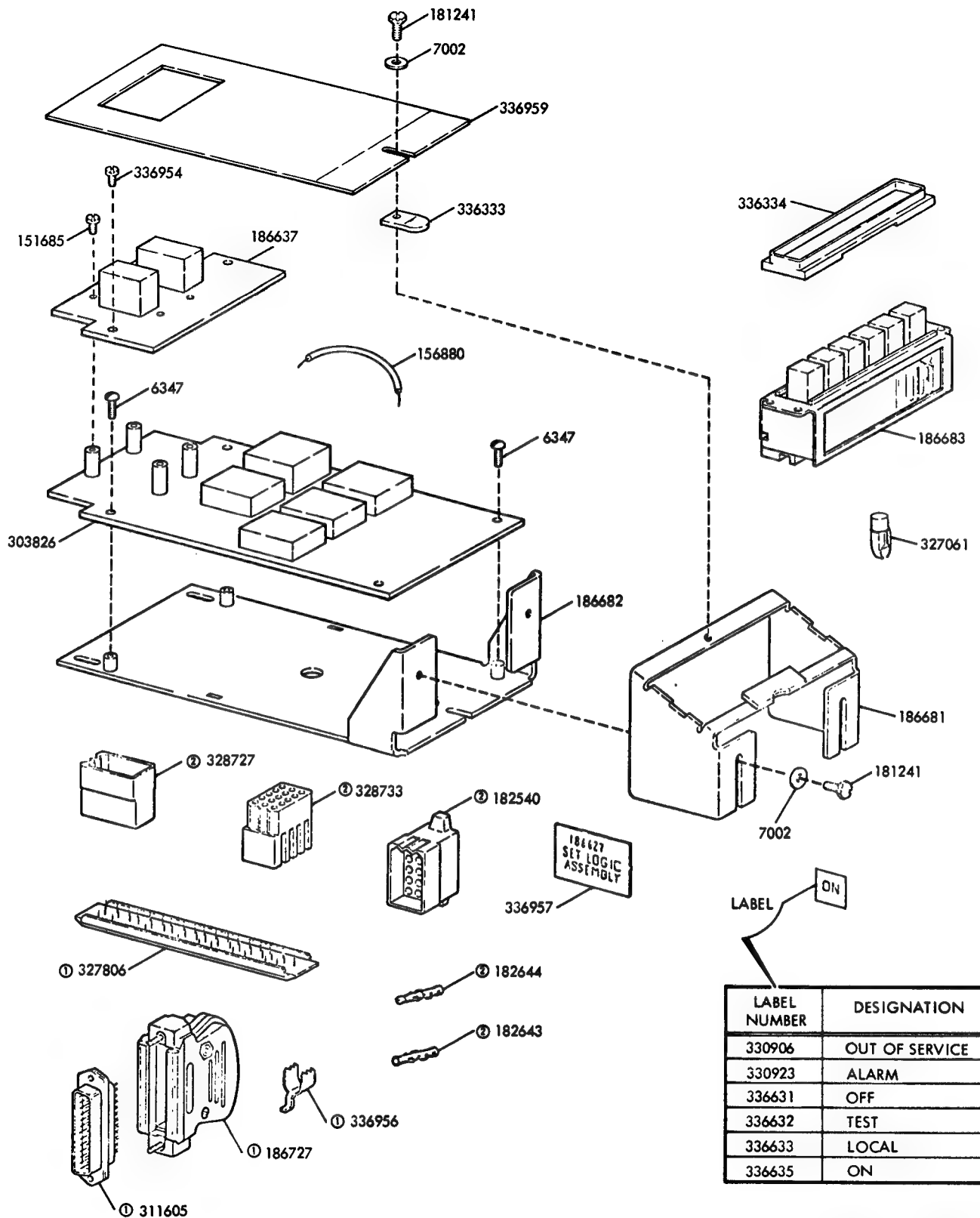
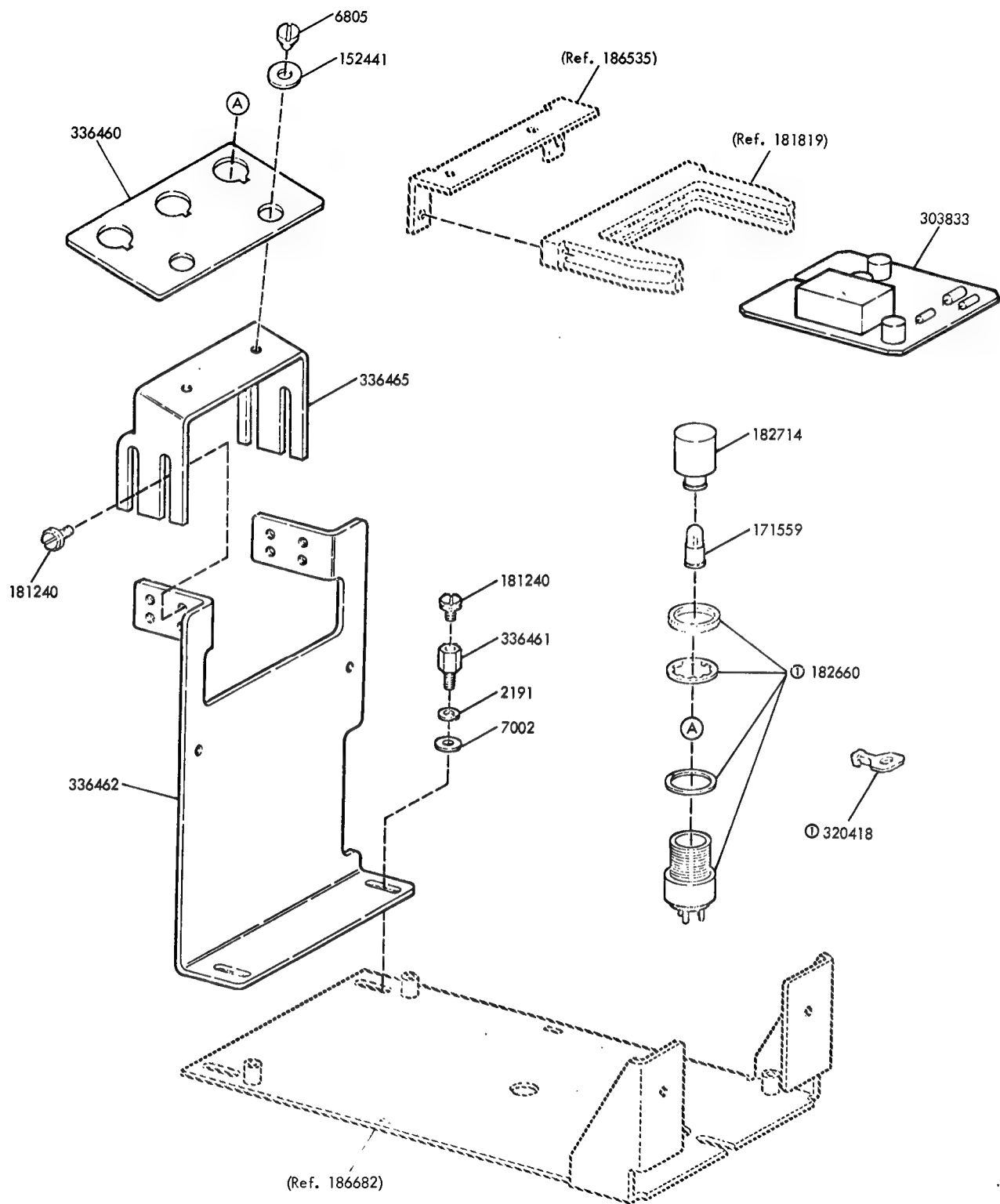


FIGURE 12. 186627 SET INTERFACE LOGIC ASSEMBLY



① 336471 Cable Assembly

FIGURE 13 186630 MODIFICATION KIT TO PROVIDE BREAK DETECTION AND INDICATION

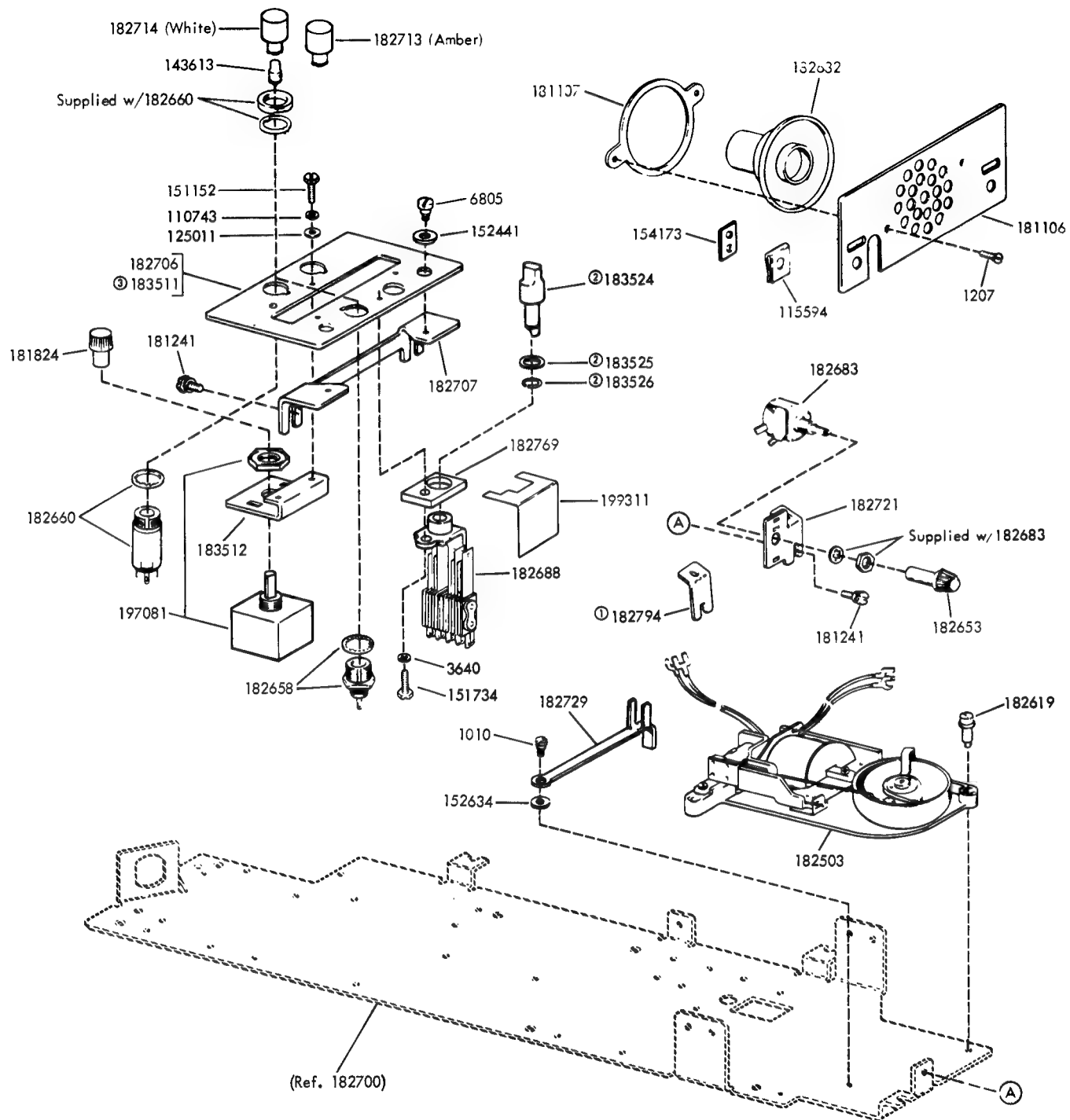


FIGURE 14. ALARMS AND SPEAKER

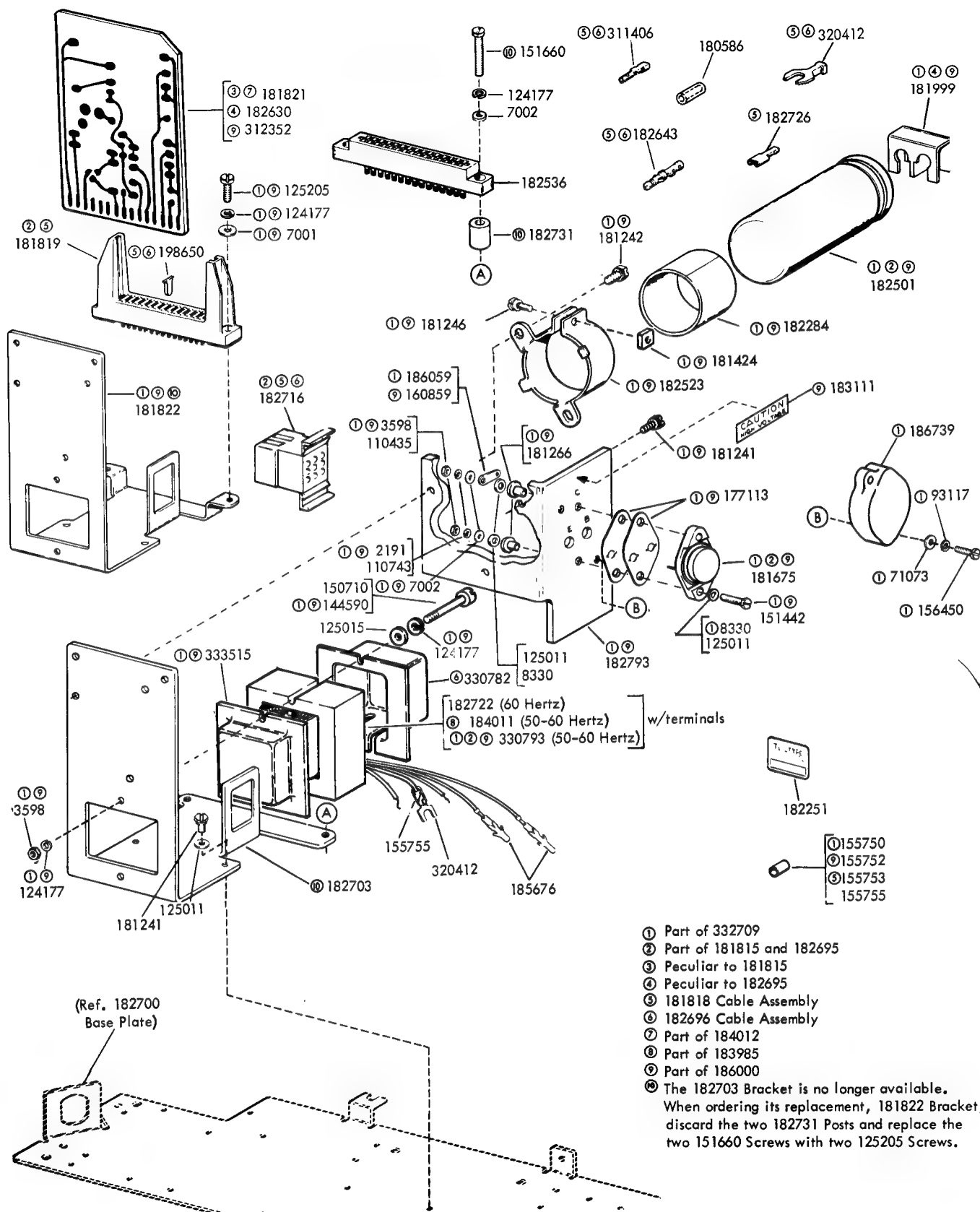
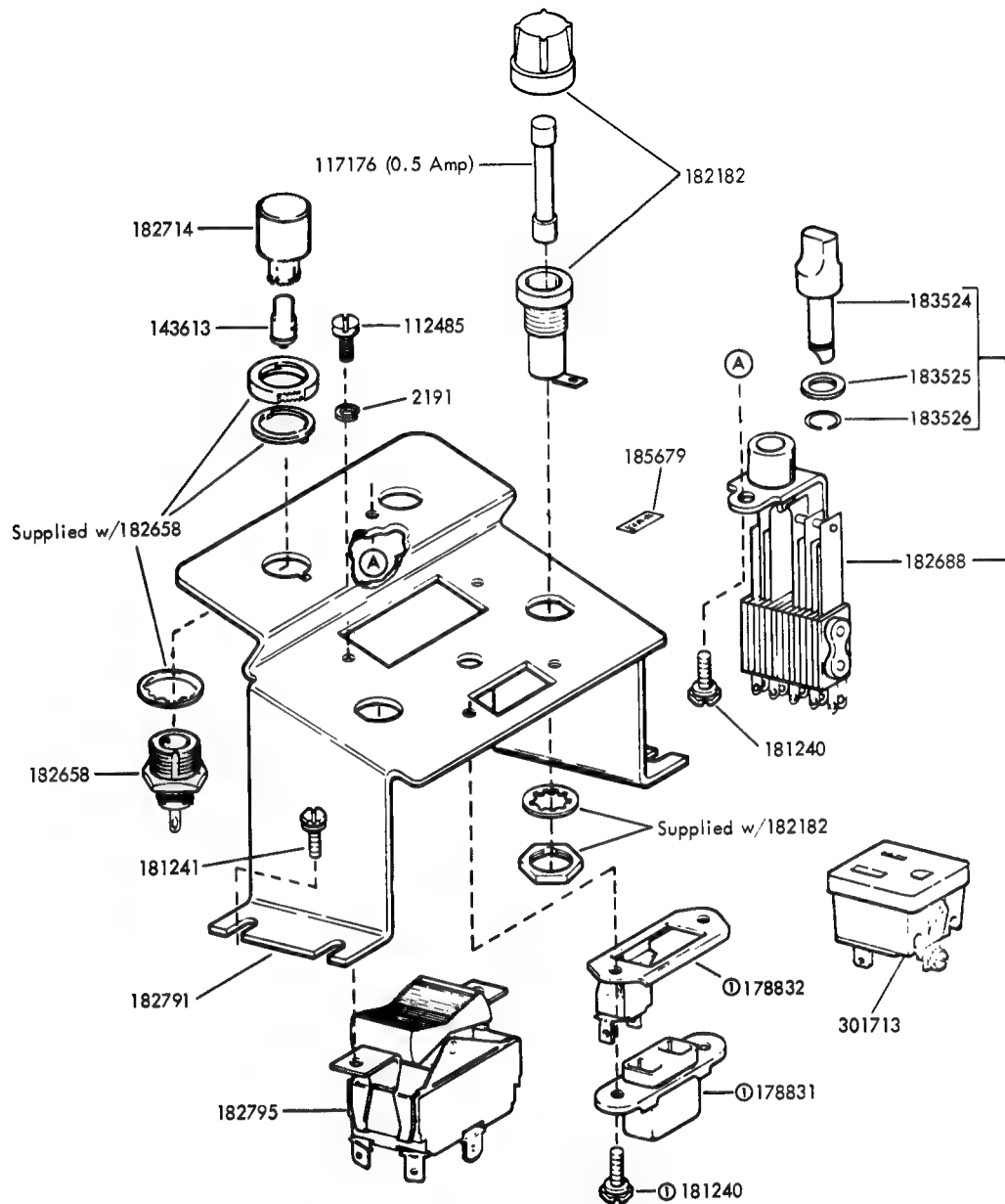


FIGURE 15. 181815, 182695, 183985, 184012, 186000 and 332709
SELECTOR MAGNET DRIVER ASSEMBLIES



ⓑ Replaced by 301713

FIGURE 16. RECEIVE-ONLY BRACKET COMPONENTS

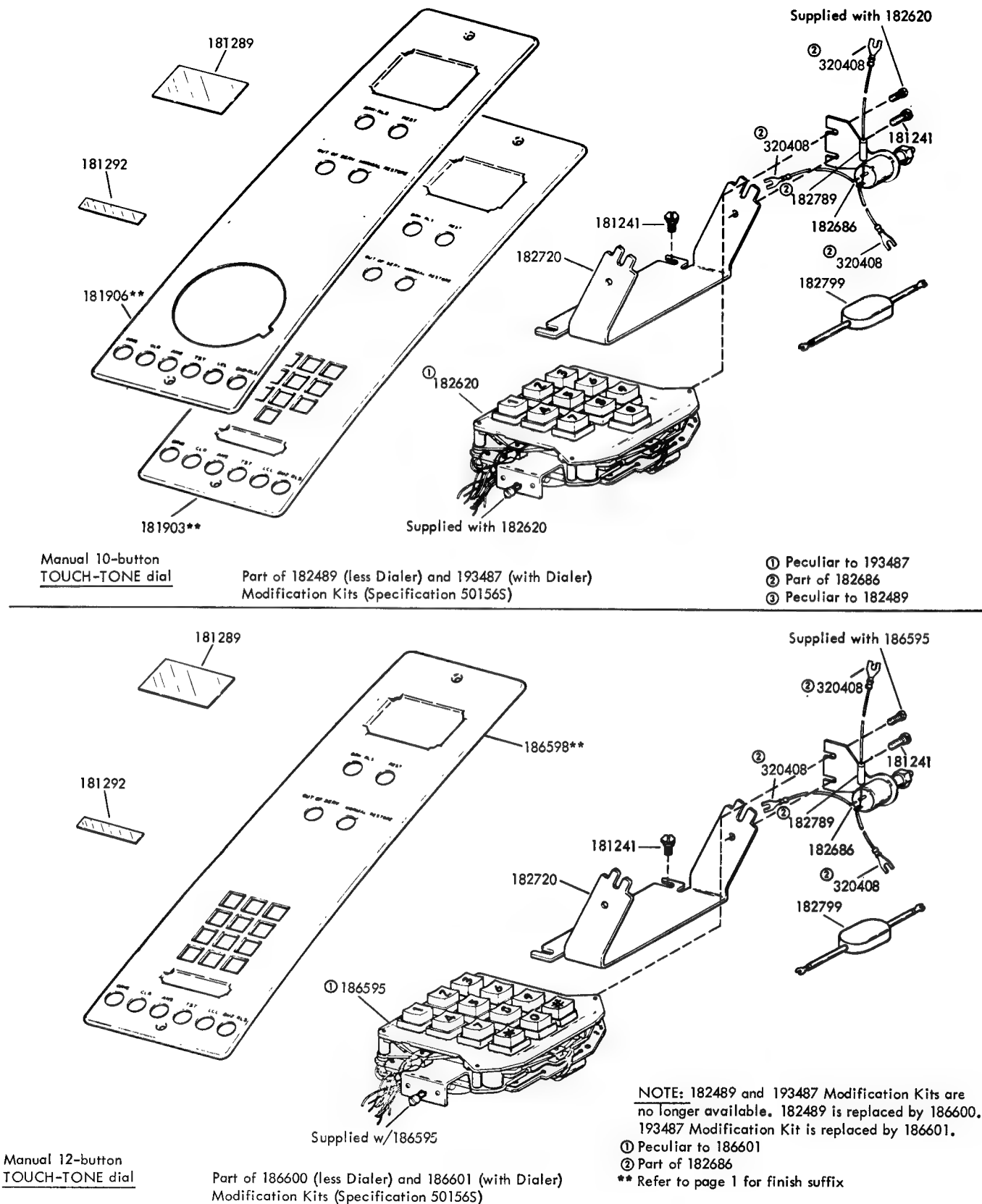
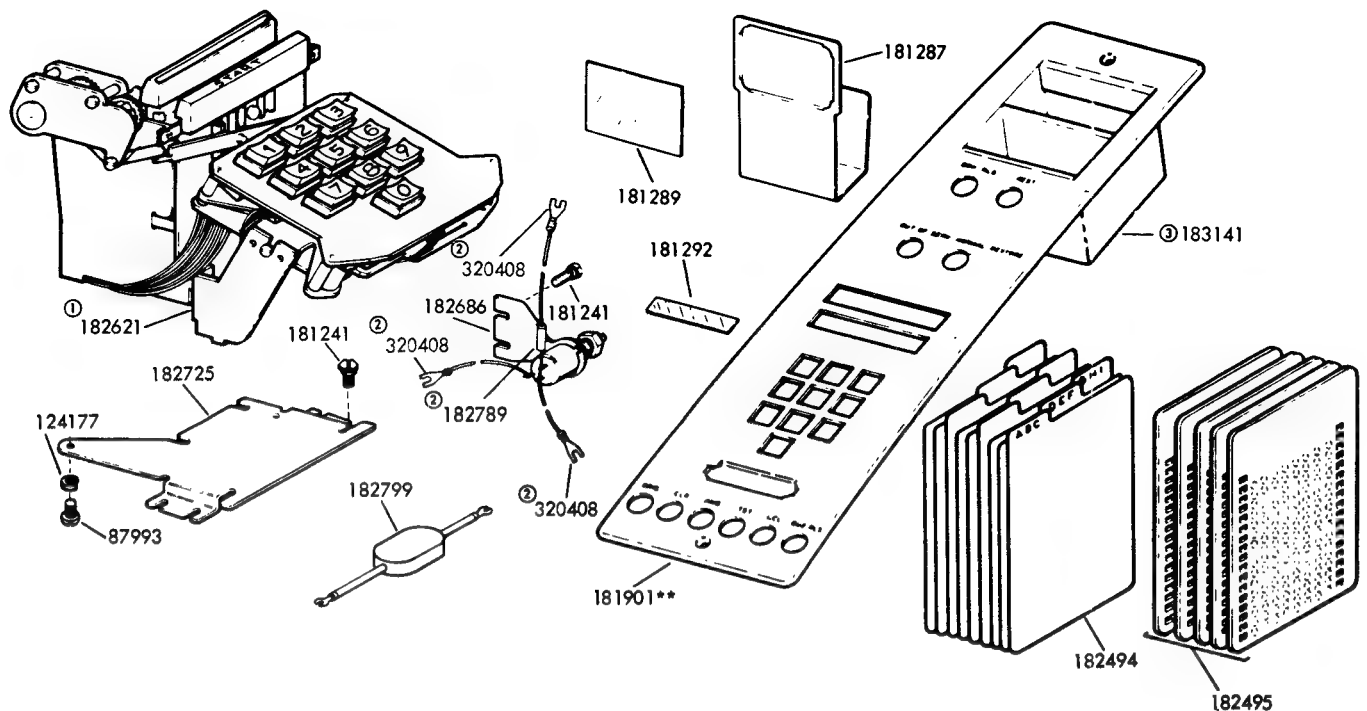


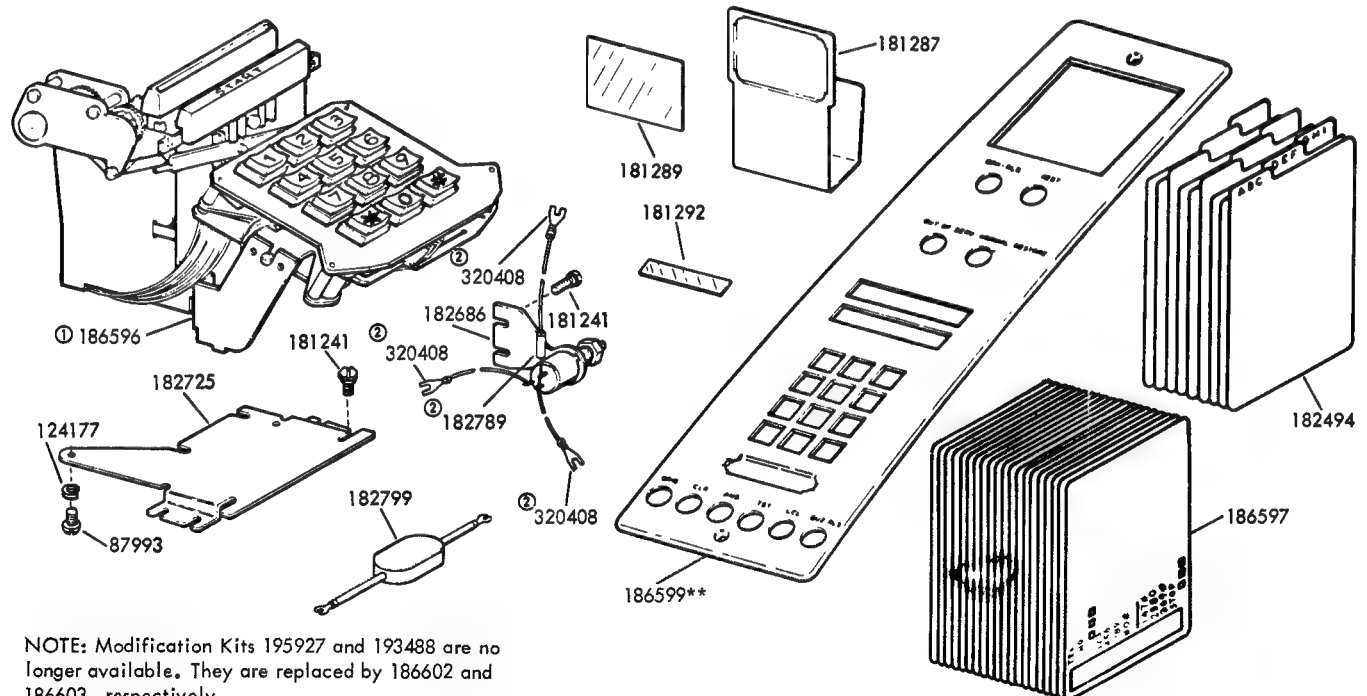
FIGURE 17. 182489, 193487, 186600 and 186601 DIAL MODIFICATIONS



Manual 10-button
TOUCH-TONE and Card Dial

Part of 195927 (less Dialer) and 193488 (with Dialer)
Modification Kits (Specification 501405)

- ① Peculiar to 193488
- ② Part of 182686
- ③ Supplied as part of faceplate or can be ordered separately



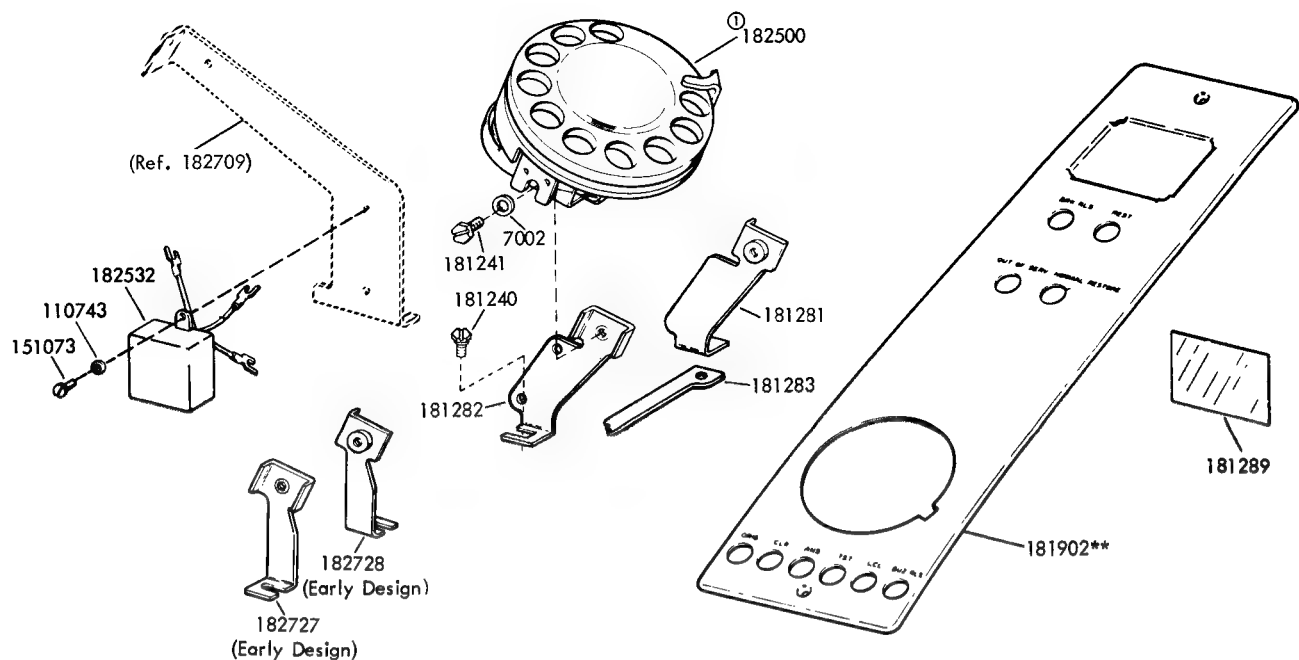
NOTE: Modification Kits 195927 and 193488 are no longer available. They are replaced by 186602 and 186603, respectively.

Manual 12-button
TOUCH-TONE and Card Dial

Part of 186602 (less Dialer) and 186603 (with Dialer)
Modification Kits (Specification 501405)

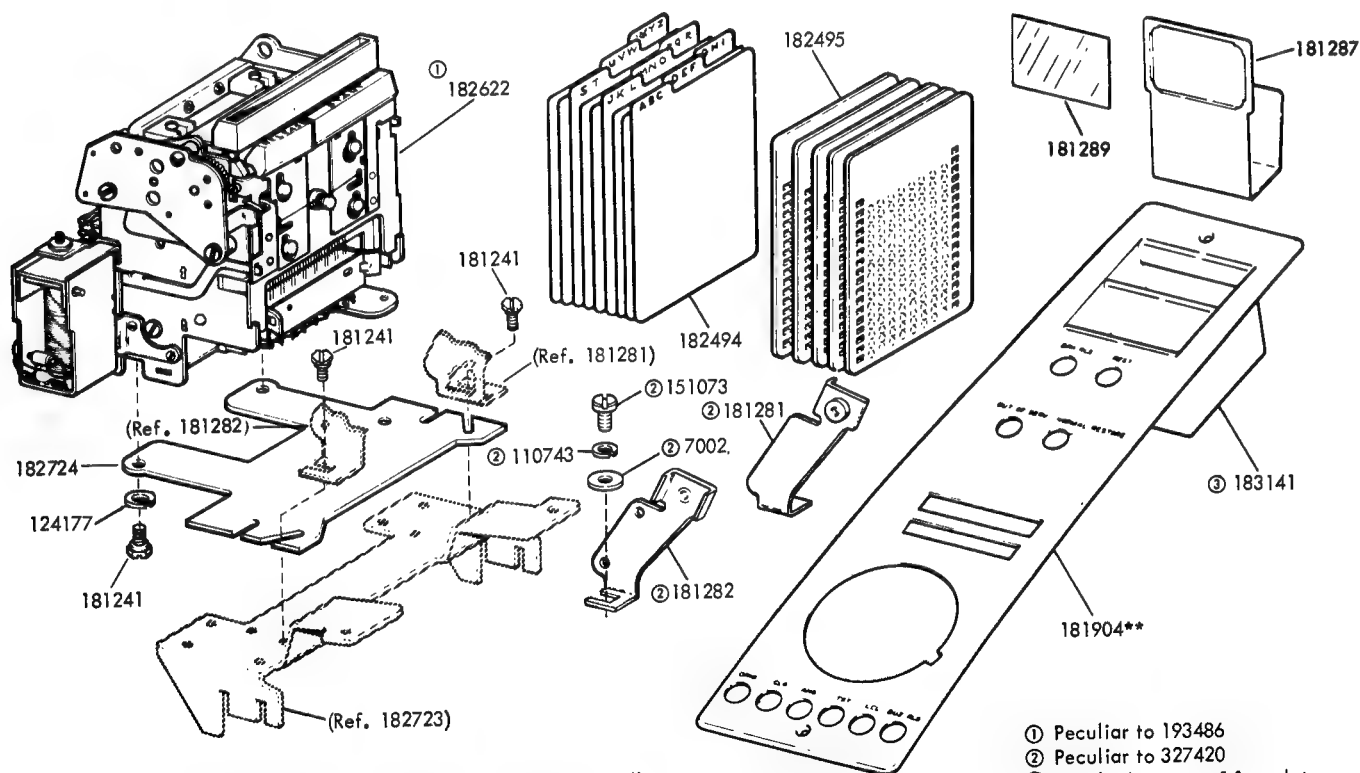
- ① Peculiar to 186603
- ② Part of 182686
- **Refer to page 1 for finish suffix

FIGURE 18. 186602, 186603, 193488 and 195927 DIAL MODIFICATIONS (Continued)



Rotary Dial Part of 193489 (with Dialer) and 195926 (less Dialer)
Modification Kits (Specification 501565)

① Peculiar to 193489



DC Card Dial Part of 193486 (with Dial) and 195924 (less Dial)
Modification Kits (Specification 501645) and
327420 (less Dial) Modification Kit (Specification 501565)

① Peculiar to 193486
② Peculiar to 327420
③ Supplied as part of faceplate or
can be ordered separately
** Refer to page 1 for finish suffix

FIGURE 19. 193486, 193489, 195924, 195926 and 327420
DIAL MODIFICATIONS (Continued)

| KEY ASSEMBLY PART LOCATION TABLE | | | | | | | | |
|----------------------------------|----------------|--|------------------|------------------|--|--|--|------------------|
| POSITION | | | 182581 | 182582 | | | | 182589 |
| F | Plunger Switch | | | 182559 182562 | | | | 182559 |
| E | Plunger Switch | | 182667 182562 | 182559 182561 | | | | 182559 182562 |
| D | Plunger Switch | | 182667 181638 | 182559 182562 | | | | 182559 182562 |
| C | Plunger Switch | | 182667 | 182559 182562 | | | | 182559 |
| B | Plunger Switch | | 182667 182562 | 182559 182562 | | | | 182559 |
| A | Plunger Switch | | | 182559 182562 | | | | 182559 182562 |
| | | | | | | | | |
| Plunger Spring | | | 182554 | 182554 | | | | 182554 |
| Lockout | | | | 182556 | | | | 182556 |
| Latch Bar | | | | 182666 | | | | 182666 |
| Latch Spring | | | | 182535 | | | | 182535 |
| Bracket | | | 181637 | 182557 | | | | 182557 |

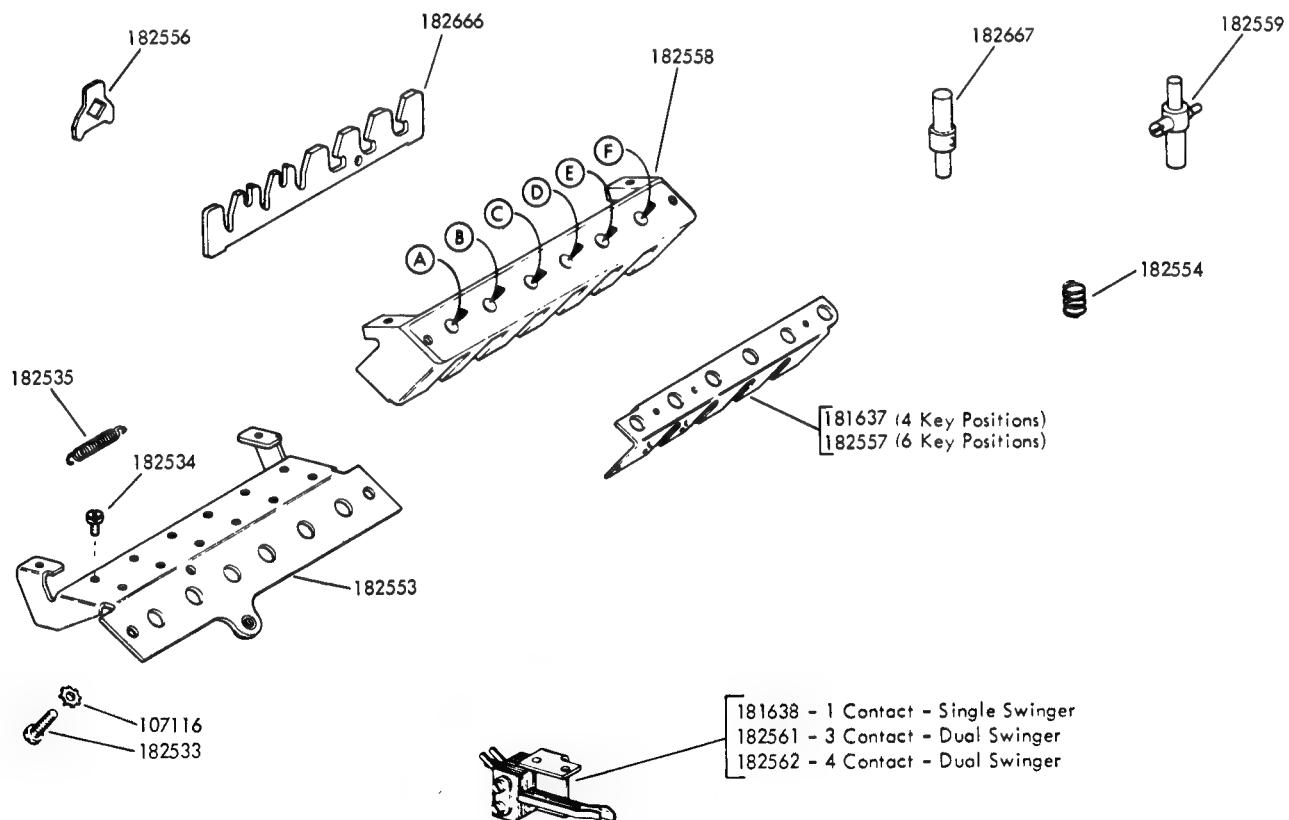


FIGURE 20. KEY ASSEMBLIES

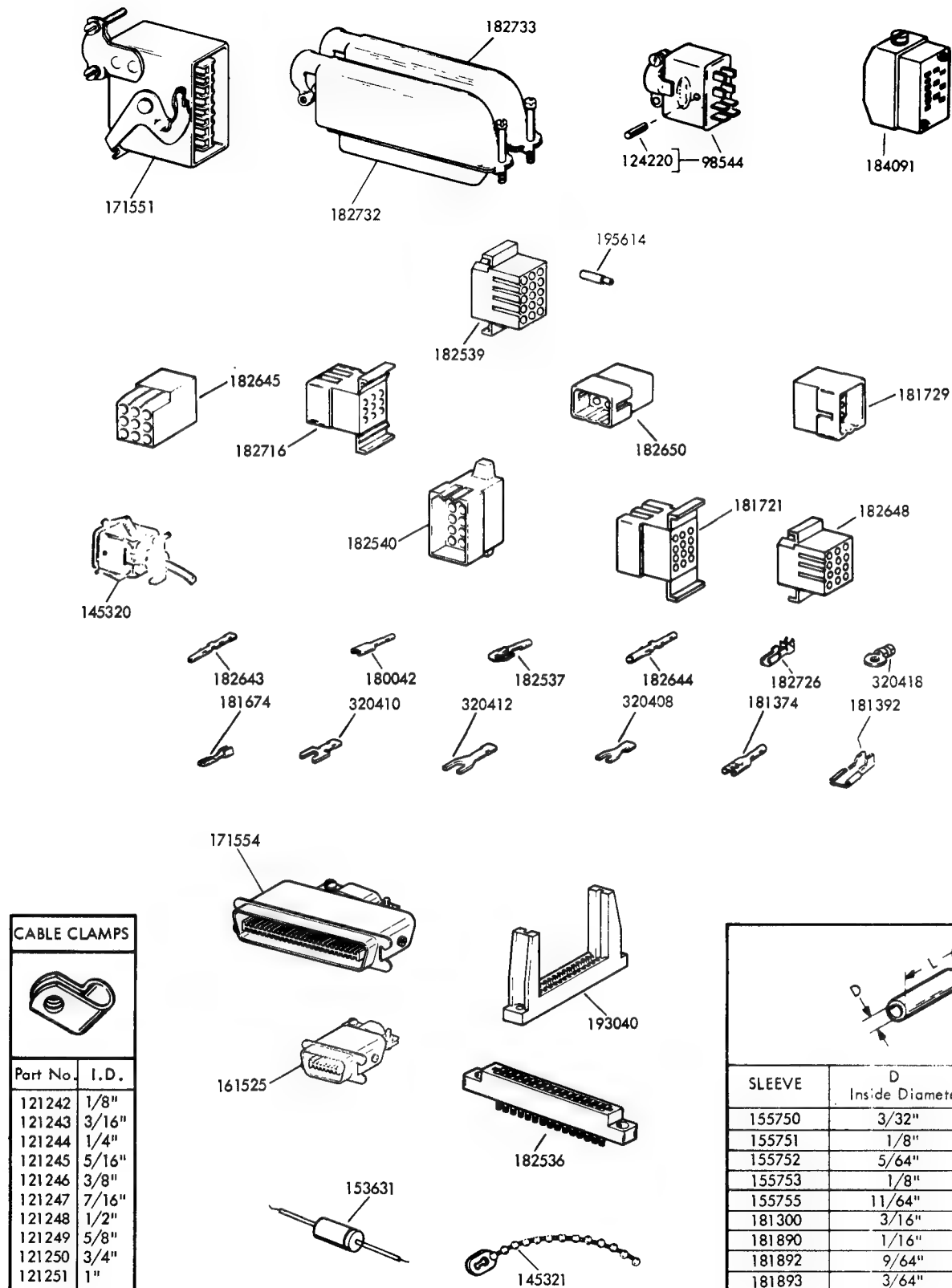


FIGURE 22. CABLE COMPONENTS

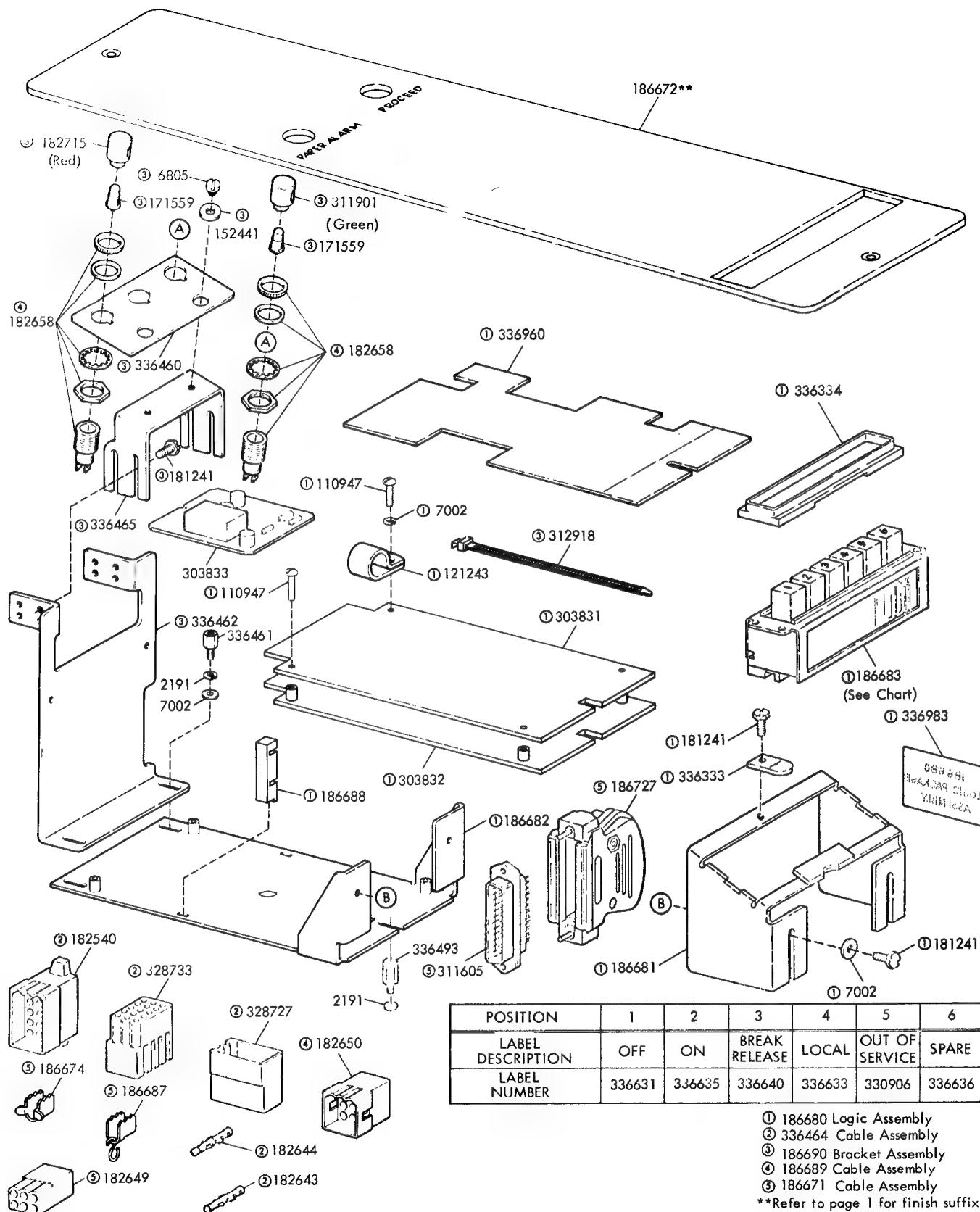


FIGURE 23. 186670 MODIFICATION KIT TO PROVIDE PRIVATE LINE

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| 1010 | Screw, 6-40 Shoulder 15 | 113442 | Jumper, 2-1/2" Brown 22 | 151415 | Block, Terminal 3 |
| 1028 | Screw, 4-40 x 1/4 Fil 3 | 115594 | Nut, Speed 15 | 151416 | Nut, 6-40 Hex 3,5,6,7,8, 9,12 |
| 1064 | Screw, 6-32 x 1/2 Rd 12 | 117176 | Fuse, SL-BL 0.5 Amp 2,6, 7,17 | 151442 | Screw, 6-40 x 1/2 Hex 4,8,10,12,16 |
| 1207 | Screw, 4-36 x 5/16 Flat 15 | 120167 | Fuse, SL-BL 3.2 Amp 6,7 | 151618 | Screw, 6-40 x 7/16 Fil 12 |
| 2191 | Lockwasher 2,3,4,5,8,9, 10,11,12,14,16,17,24 | 121242 | Clamp, 1/8 ID Cable 23 | 151660 | Screw, 6-40 x 7/8 Fil 6, 11,16 |
| 3598 | Nut, 6-40 Hex 4,5,6,8,9, 12,16 | 121243 | Clamp, 3/16 ID Cable 23, 24 | 151685 | Screw, 4-40 x 5/16 Fil 13 |
| 3606 | Nut, 6-40 Hex 4,11 | 121244 | Clamp, 1/4 ID Cable 23 | 151687 | Screw, 4-40 x 7/16 Fil 10 |
| 3640 | Lockwasher 10,15 | 121245 | Clamp, 5/16 ID Cable 7,8, 23 | 151692 | Screw, 6-40 x 3/16 Fil 7,9 |
| 3646 | Lockwasher 8 | 121246 | Clamp, 3/8 ID Cable 23 | 151693 | Screw, 6-40 x 9/16 Fil 4 |
| 3649 | Washer, Flat 4,6 | 121247 | Clamp, 7/16 ID Cable 7,23 | 151731 | Screw, 4-40 x 7/8 Fil 5, 6,12 |
| 5599 | Nut, 8-32 Hex 8 | 121248 | Clamp, 1/2 ID Cable 23 | 151734 | Screw, 4-40 x 3/8 Hex 15 |
| 6347 | Screw, 6-32 x 3/8 Rd 13 | 121249 | Clamp, 5/8 ID Cable 23 | 151738 | Screw, Spl. 7 |
| 6805 | Screw, 6-40 Shoulder 14, 15,24 | 121250 | Clamp, 3/4 ID Cable 23 | 151818 | Jumper, 4-1/4" Black 22 |
| 7001 | Washer, Flat 16 | 121251 | Clamp, 1 ID Cable 23 | 151819 | Jumper, 3" Black 22 |
| 7002 | Washer, Flat 2 to 13, 14,16,20,24 | 121551 | Screw, 8-32 x 1/4 Hex 2, 3,7,8,9 | 151827 | Strap, Terminal 5,12 |
| 8330 | Washer, Flat 8,9,12,16 | 124177 | Lockwasher, 4,6,7,9,16, 19,20 | 152441 | Washer, Flat 14,15,24 |
| 42823 | Washer, Flat 5,6,12 | 124220 | Pin, Drive 23 | 152634 | Washer, Flat 15 |
| 49054 | Screw, 2-56 x 3/16 Flat 10 | 125011 | Washer, Flat 2,3,15,16 | 152893 | Screw, 4-40 x 1/4 Hex 2,3 |
| 70072 | Lockwasher 4 | 125015 | Washer, Flat 3,4,6,7,8,16 | 153484 | Screw, 6-32 Spl 3 |
| 71073 | Washer, Flat 16 | 125205 | Screw, 6-40 x 7/16 Fil 16 | 153631 | Network, Spark Suppres- sion 5,12,22,23 |
| 75750 | Washer, Insulating 3 | 125206 | Screw, 6-32 x 5/8 Fil 22 | 153799 | Screw, 4-40 x 21/64 Hex 3 |
| 77362 | Resistor, 350 Ohm 3 | 138538 | Fuse, SL-BL 2 Amp 7 | 154173 | Plate 15 |
| 77902 | Screw, 6-40 x 2-3/8 Rd 3 | 142269 | Fuse, SL-BL 3 Amp 7,8,9 | 155750 | Sleeve, 3/32 ID x 1/2" Lg Insulating 10,16,23 |
| 87993 | Screw, 6-40 x 5/32 Fil 19 | 143613 | Lamp, 14V Incandescent 2,15,17 | 155751 | Sleeve, 1/8 ID x 1" Lg Insulating 23 |
| 90787 | Screw, 4-40 x 3/8 Hex 2 | 144590 | Screw, 6-40 x 1-3/8 Fil 4,16 | 155752 | Sleeve, 5/64 ID x 1/2" Lg Insulating 16,23 |
| 91742 | Locknut 22 | 145046 | Connector, 3 Pt Plug 22 | 155753 | Sleeve, 1/8 ID x 1/2" Lg Insulating 16,23 |
| 91943 | Jumper, 2-1/4" Black 22 | 145047 | Connector, 3 Pt Recep- tacle 22 | 155755 | Sleeve, 11/64 ID x 5/8" Lg Insulating 10,16,23 |
| 92260 | Lockwasher 12 | 145320 | Connector, 4 Pt Recep- tacle 23 | 156450 | Screw, 2-56 x 1/2 Fil 16 |
| 93117 | Lockwasher 16 | 145321 | Tie, Cable 23 | 156880 | Jumper, 2-3/8" Black 13 |
| 96717 | Screw, 4-40 Shoulder 2 | 150710 | Screw, 6-40 x 1-1/4 Fil 8,16 | 159404 | Post 10 |
| 98544 | Connector, 8Pt Plug 23 | 150966 | Insulator, Terminal 3 | 159931 | Clamp 6,7 |
| 98726 | Screw, 3-48 x 1/4 Fil 4 | 150978 | Screw, 6-40 x 1-1/8 Fil 4 | 159932 | Keeper 6,7 |
| 103092 | Connector, Cord 22 | 150982 | Screw, 4-40 x 7/16 Fil 3 | 160859 | Terminal 16 |
| 103469 | Screw, 4-40 Spl 10 | 151073 | Screw, 4-40 x 5/32 Fil 20 | 161525 | Connector, 14 Pt Plug 23 |
| 107116 | Lockwasher 21 | 151152 | Screw, 4-40 x 3/16 Hex 15 | 162360 | Fuse, SL-BL .8 Amp 6,8 |
| 108463 | Terminal 4,8 | 151335 | Stud 3,5,6,7,8,9,12 | 165168 | Key 10 |
| 110435 | Nut, 4-40 Hex 16 | 151411 | Block, Terminal 5,6,7,8, 9,12 | 171441 | Resistor, 560 Ohm 10 |
| 110743 | Lockwasher 2,3,5,6,7,12, 15,16,20 | 151412 | Insulator, Terminal 5,6, 7,8,9,12 | 171536 | Resistor, 2,250 Ohm 5 |
| 110947 | Screw, 6-32 x 13/16 Rd 24 | | | 171551 | Connector, 16 Pt Plug 23 |
| 111017 | Screw, 6-40 x 5/16 Fil 3,5,6,7,8,9,12 | | | | |
| 111647 | Resistor, 1,000 Ohm 3 | | | | |
| 112485 | Screw, 6-32 x 1/4 Fil 2,17 | | | | |

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| 171559 | Lamp, 28V Incandescent 10,14,24 | 181106 | Plate, Baffle 15 | 181810 | Relay 7 |
| 171593 | Fuse, .5 Amp 7 | 181107 | Bracket 15 | 181814 | Capacitor, 250 MFD 7 |
| 177113 | Insulator 4,8,12,16 | 181196 | Ring, Retaining 7 | 181815 | Driver Assembly, Selector Magnet 1,16 |
| 178306 | Relay, Power 12 | 181204 | Washer, Flat 10 | 181816 | Resistor, 4,200 Ohm 7 |
| 178535 | Suppressor, Spark 3,12 | 181240 | Screw w/Lockwasher, 6-40 x 3/16 Hex 2,6,7,8,9,11, 12,14,17,20 | 181817 | Bracket 7 |
| 178831 | Connector, 2 Pt Receptacle 2,6,7,8,9,17 | 181241 | Screw w/Lockwasher, 6-40 x 1/4 Hex 2 to 13,15,16, 17,18,19,20,24 | 181818 | Cable Assembly 16 |
| 178832 | Plate, Adapter 2,6,7,8,9, 17 | 181242 | Screw w/Lockwasher, 6-40 x 5/16 Hex 7,8,9,10,16 | 181819 | Connector, 15 Pt Circuit Card 11,12,14,16 |
| 178883 | Resistor, 1,500 Ohm 5 | 181243 | Screw w/Lockwasher, 6-40 x 3/8 Hex 6 | 181821 | Card, Circuit 16 |
| 180042 | Terminal, Tab Type 23 | 181245 | Screw w/Lockwasher, 6-40 x 3/8 Hex 8 | 181822 | Bracket 16 |
| 180586 | Sleeve, 5/32 ID x 21/32" Lg Insulating 16 | 181246 | Screw w/Lockwasher, 6-40 x 5/8 Hex 7,16 | 181824 | Knob, Gray Pointer 7,8,9, 15 |
| 180877 | Jumper, 2-3/4" White-Red 22 | 181263 | Timer, Hour 6,12 | 181825 | Cover, Relay 7 |
| 180878 | Jumper, 2-3/4" White-Orange 22 | 181264 | Bracket 6,12 | 181826 | Jumper, 2" Black 22 |
| 180879 | Jumper, 2-3/4" White-Yellow 22 | 181265 | Timer w/Terminals 6 | 181827 | Jumper, 2-3/4" White-Black 22 |
| 180880 | Jumper, 2-3/4" White-Green 22 | 181266 | Bushing, Insulating 16 | 181828 | Jumper, 2-3/4" White-Orange 22 |
| 180881 | Jumper, 2-3/4" White-Blue 22 | 181276 | Plate, Name 6,12 | 181829 | Jumper, 2-3/4" White-Blue 22 |
| 180882 | Jumper, 2-3/4" White-Black 22 | 181281 | Bracket, Right 20 | 181830 | Jumper, 2-3/4" White-Yellow 22 |
| 180884 | Jumper, 2-3/4 White-Slate 22 | 181282 | Bracket, Left 20 | 181831 | Jumper, 2-3/4" White-Purple 22 |
| 180886 | Jumper, 2-1/2" Green 22 | 181283 | Spacer, .065" Thk 3,20 | 181832 | Jumper, 2-3/4" White-Brown 22 |
| 180887 | Jumper, 2-1/2" Red 22 | 181287 | Holder, Card 19,20 | 181836 | Jumper, 4-1/2" Blue 22 |
| 180888 | Jumper, 2-1/2" Blue 22 | 181289 | Window, Plastic 18,19,20 | 181837 | Jumper, 4-1/2' Black 22 |
| 180889 | Jumper, 2-1/2" Yellow 22 | 181292 | Window, Plastic 18,19 | 181840 | Plate, Name 7 |
| 180890 | Jumper, 2-1/2" White 22 | 181297 | Cover, Insulating 5,6,7,8 9 | 181842 | Plate, Name 7 |
| 180893 | Jumper, 2-1/2" Red-Orange 22 | 181300 | Sleeve, 3/16 ID x 1" Lg Insulating 23 | 181844 | Plate, Name 7,8 |
| 180894 | Jumper, 2-1/2" White-Blue 22 | 181374 | Terminal, Tab Type 23 | 181845 | Plate, Name 6,7 |
| 180895 | Jumper, 2-1/2" White-Green 22 | 181392 | Terminal, Tab Type 9,23 | 181857 | Plate 8 |
| 180896 | Jumper, 2-1/2" White-Yellow 22 | 181424 | Nut, 6-40 Sq 7,8,16 | 181879 | Transformer, Power 7 |
| 180897 | Jumper, 2-1/2" White-Orange 22 | 181631 | Strip Assembly, Lamp 2 | 181882 | Bracket, Switch 8 |
| 180898 | Jumper, 2-1/2" White-Red 22 | 181632 | Button Assembly 2 | 181890 | Sleeve, 1/16 ID x 1" Lg Insulating 22,23 |
| 180899 | Jumper, 2-1/2" White-Purple 22 | 181637 | Bracket 21 | 181892 | Sleeve, 9/64 ID x 1" Lg Insulating 23 |
| 180900 | Jumper, 2-1/2" Orange 22 | 181638 | Contact Assembly 21 | 181893 | Sleeve, 3/64 ID x 1-1/2" Lg Insulating 5,23 |
| 180902 | Jumper, 3-1/2" Braided 22 | 181645 | Dial, Rotary 2 | 181901** | Faceplate 19 |
| | | 181661 | Buzzer, 115V ac 2 | 181902** | Faceplate 20 |
| | | 181672 | Relay, Power 4 | 181903** | Faceplate 18 |
| | | 181674 | Terminal, Tab Type 23 | 181904** | Faceplate 20 |
| | | 181675 | Transistor, Power 4,8,12, 16 | 181906** | Faceplate 18 |
| | | 181721 | Connector, 12 Pt Plug Type 23 | 181994 | Bracket, Guide 7 |
| | | 181729 | Connector Assembly 23 | 181999 | Insulator 7,16 |

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| 182065 | Plate, Identification 7,8 | 182566 | Bracket, Left 2 | 182696 | Cable Assembly 16 |
| 182066 | Plate, Identification 8 | 182569 | Clamp 5 | 182700 | Plate, Base 3,6,7,15,16 |
| 182162 | Post 4 | 182571 | Screw, 6-40 Shoulder 2 | 182703 | Bracket 16 |
| 182173 | Spacer 8 | 182576 | Bracket, Right 2 | 182704 | Bracket 6,7,9 |
| 182182 | Holder, Fuse 2,6,7,8,9, 12,17 | 182577 | Bracket 2 | 182706 | Plate, Pilot 15 |
| 182184 | Fuse, 2.8 Amp 7,8 | 182581 | Key Assembly 21 | 182707 | Bracket, Pilot 15 |
| 182193 | Insulator 3 | 182582 | Key Assembly 21 | 182708 | Bracket, Left 3 |
| 182251 | Plate, Identification 4,7,16 | 182589 | Key Assembly 21 | 182709 | Bracket, Right 3,20 |
| 182284 | Insulator, .015" Thk 7,16 | 182611 | Fuse, SL-BL 3/8 Amp 5,6, 7,9 | 182710 | Bracket, Upper 6,7,9 |
| 182287 | Jumper, 6" Purple 6,22 | 182615 | Pad 5 | 182711 | Bracket, Lower 6,7 |
| 182489 | Modification Kit 1,18 | 182619 | Screw, 6-40 Shoulder 15 | 182713 | Cap, Amber Lens 15 |
| 182494 | Card Set, Index 19,20 | 182620 | Dial, Touch Tone 18 | 182714 | Cap, White Lens 2,10,14, 15,17 |
| 182495 | Card Set, Dialing 19,20 | 182621 | Dial, Touch Tone Card 19 | 182715 | Cap, Red Lens 10,24 |
| 182500 | Dial, Rotary 20 | 182622 | Dial, DC Card 20 | 182716 | Connector, 9 Pt Plug Type 16,23 |
| 182501 | Capacitor, 1,500 MFD 4,8, 16 | 182630 | Card, Circuit 11,16 | 182717 | Board, Terminal 3 |
| 182502 | Nut, No. 14 Speed 2,3,7, 8,9 | 182643 | Terminal, Plug Type 5,9, 13,16,22,23,24 | 182718 | Buzzer, 10V ac 3 |
| 182503 | Ringer w/Terminals 15 | 182644 | Terminal, Receptacle Type 5,9,13,22,23,24 | 182719 | Bracket, Guide 6 |
| 182510 | Cord, Power 22 | 182645 | Connector, 9 Pt Receptacle Type 23 | 182720 | Bracket, Dial 18 |
| 182520 | Rectifier 6,7 | 182648 | Connector, 12 Pt Receptacle Type 23 | 182721 | Bracket 15 |
| 182523 | Clamp, 1-3/8" ID Mounting 7,8,16 | 182649 | Connector, 6 Pt Receptacle Type 24 | 182722 | Transformer w/Terminals 16 |
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| 182527 | Screw, 4-40 Shoulder 2 | 182653 | Knob 15 | 182724 | Plate, Dial 20 |
| 182529 | Lamp, 10V 2,3 | 182657 | Transformer, Power 6 | 182625 | Plate, Tone Dialer 19 |
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| 182534 | Screw, 4-40 Spl 21 | 182661 | Holder, Fuse 5 | 182728 | Bracket, Right 20 |
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| 182536 | Connector, 15 Pt Circuit Card 4,6,16,23 | 182667 | Plunger 21 | 182730 | Bracket, Support 3 |
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| 182540 | Connector, 15 Pt Plug Type 13,23,24 | 182682 | Speaker, 2" 15 | 182733 | Connector, 50 Pt Receptacle 23 |
| 182553 | Plate, Base 21 | 182683 | Resistor, 50 Ohm 15 | 182750 | Card, Amplifier Circuit 6 |
| 182554 | Spring, Compression 21 | 182684 | Strap 3 | 182761 | Capacitor, 0.5 MFD 3 |
| 182556 | Lockout 21 | 182685 | Strap 3 | 182768 | Bracket, Fuse 7 |
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| 182559 | Plunger 21 | 182692 | Jumper, 2-1/4" Orange 22 | 182781 | Jumper, 2-3/4" White-Red 22 |
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| 182786 | Jumper, 2-1/4" White-Brown 22 | 185679 | Plate, Identification 2,6,7,17 | 186683 | Key Assembly 13,24 |
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| 182794 | Bracket 15 | 186059 | Terminal 4,8,12,16 | 186739 | Cover 16 |
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| 183511 | Plate, Pilot 15 | 186423 | Insulator 11 | 193209 | Connector, Receptacle Type 8 |
| 183512 | Bracket, Switch 15 | 186424 | Plate 12 | 193438 | Strip, Lamp 3 |
| 183524 | Button, Turn 2,15,17 | 186425 | Plate, Base 11 | 193486 | Modification Kit 1,20 |
| 183525 | Washer, Flat 2,15,17 | 186426 | Bracket 11,12 | 193487 | Modification Kit 1,18 |
| 183526 | Ring, Retaining 2,15,17 | 186427 | Bracket 11 | 193488 | Modification Kit 1,19 |
| 183985 | Driver Assembly, Selector Magnet 1,16 | 186431 | Cable Assembly 12 | 193489 | Modification Kit 1,20 |
| 184011 | Transformer w/Terminals 16 | 186434 | Transformer 11 | 193706 | Jumper, 3" White-Orange 22 |
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| 184076 | Cable Assembly 22 | 186439 | Card, Circuit 11 | 195614 | Pin, Key 5,6,7,9,23 |
| 184079 | Jumper, White-Red 22 | 186448 | Timer Assembly 5 | 195618 | Jumper, 5-1/4" White-Purple 5 |
| 184080 | Jumper, White-Orange 22 | 186463 | Post 11 | 195924 | Modification Kit 1,20 |
| 184081 | Jumper, White-Yellow 22 | 186465 | Timer Assembly 5 | 195926 | Modification Kit 1,20 |
| 184082 | Jumper, White-Green 22 | 186535 | Bracket 12,14 | 195927 | Modification Kit 1,19 |
| 184083 | Jumper, White-Blue 22 | 186595 | Dial, Touch-Tone 18 | 195940 | Stud 10 |
| 184084 | Jumper, White-Black 22 | 186596 | Dial, Touch-Tone 19 | 197028 | Terminal 9 |
| 184091 | Connector, 12 Pt Plug 23 | 186597 | Card Set, Dialing 19 | 197054 | Jumper, 3" Black 9 |
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| 184161 | Bracket 8 | 186599** | Faceplate 19 | 197464 | Diode 10 |
| 184162 | Connector, 22 Pt Circuit Card 8 | 186600 | Modification Kit 1,18 | 197939 | Switch, Pushbutton 10 |
| 184166 | Bracket 8 | 186601 | Modification Kit 1,18 | 198515 | Card, Circuit 4 |
| 184168 | Card, Circuit 8 | 186602 | Modification Kit 1,19 | 198517 | Bracket 4 |
| 184169 | Capacitor, 500-600 MFD 8 | 186603 | Modification Kit 1,19 | 198518 | Bushing, Insulating 4,8,12 |
| 184171 | Strip, Terminal 8 | 186627 | Logic Assembly 1,13 | 198519 | Insulator 4 |
| 184193 | Transformer 8 | 186628 | Bracket 6,7 | 198520 | Insulator, .062" Thk 4 |
| 184209 | Insulator 8 | 186630 | Modification Kit 1,14 | 198521 | Bracket 4 |
| 185676 | Terminal, Plug Type 9,16 | 186637 | Card, Circuit 13 | 198522 | Clip, Spring 4,8 |
| | | 186670 | Modification Kit 1,24 | 198528 | Bracket 5 |
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| 302433 | Button, Stud 11 | 327420 | Modification Kit 1,20 | 330796 | Transformer 4 |
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| 311605 | Connector, 25 Pt Plug 13,24 | 328394 | Jumper, 8" Black 9 | 336464 | Cable Assembly 13,24 |
| 311901 | Cap, Green 24 | 328395 | Jumper, 6" Black 9 | 336465 | Bracket 14,24 |
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| 312918 | Strap 24 | 328397 | Jumper, 6" White 9 | 336493 | Post 11,24 |
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| 320410 | Terminal, Spade Type 6,9, 12,22,23 | 328399 | Jumper, 8" White 9 | 336631 | Label 13,24 |
| 320412 | Terminal, Spade Type 4, 16,23 | 328400 | Jumper, 8" Black 9 | 336632 | Label 13 |
| 320418 | Terminal, Ring Type 12, 14,22,23 | 328727 | Connector, 15Pt Plug Type 13,24 | 336633 | Label 13,24 |
| 320423 | Plate 5 | 328733 | Connector, 15Pt Recep- tacle Type 13,24 | 336635 | Label 13,24 |
| 326635 | Network, Spark Suppres- sion 10 | 328739 | Plate, Switch 10 | 336636 | Label 24 |
| 327061 | Lamp, 24V 13 | 328740 | Bracket, Mounting 10 | 336640 | Label 24 |
| | | 328741 | Post 10 | 336954 | Screw, 4-40 x 13/64 Fil 13 |
| | | 328742 | Switch, Rotary 9 | 336956 | Stayband 13 |
| | | 328743 | Switch, Lever 10 | 336957 | Label 13 |
| | | 328808 | Plate, Base 9,10 | 336959 | Cover 13 |
| | | 330781 | Shield, Transformer 4 | 336960 | Cover 24 |
| | | 330782 | Shield, Transformer 4,16 | 336983 | Label 24 |

33 TAPE READER (UX)

PARTS

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| 1 | Reader Mechanism | 2 |
| 2 | Tape Feed Magnet | 3 |
| 3 | Contact Block | 3 |
| 4 | Reed Switch and Magnet Core | 4 |
| 5 | Vibration Mounting | 4 |
| | Numerical Index | 5 |

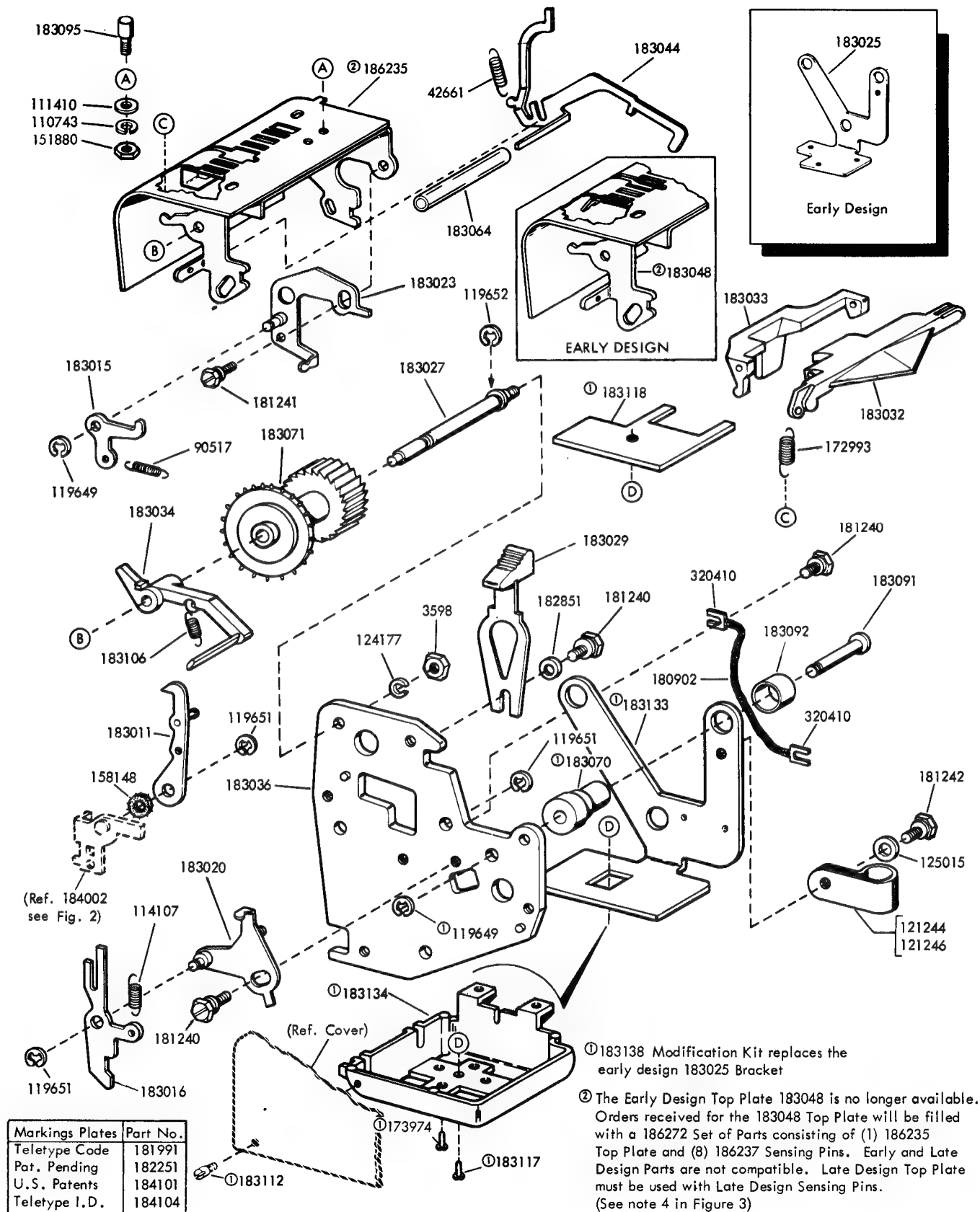


FIGURE 1. READER MECHANISM

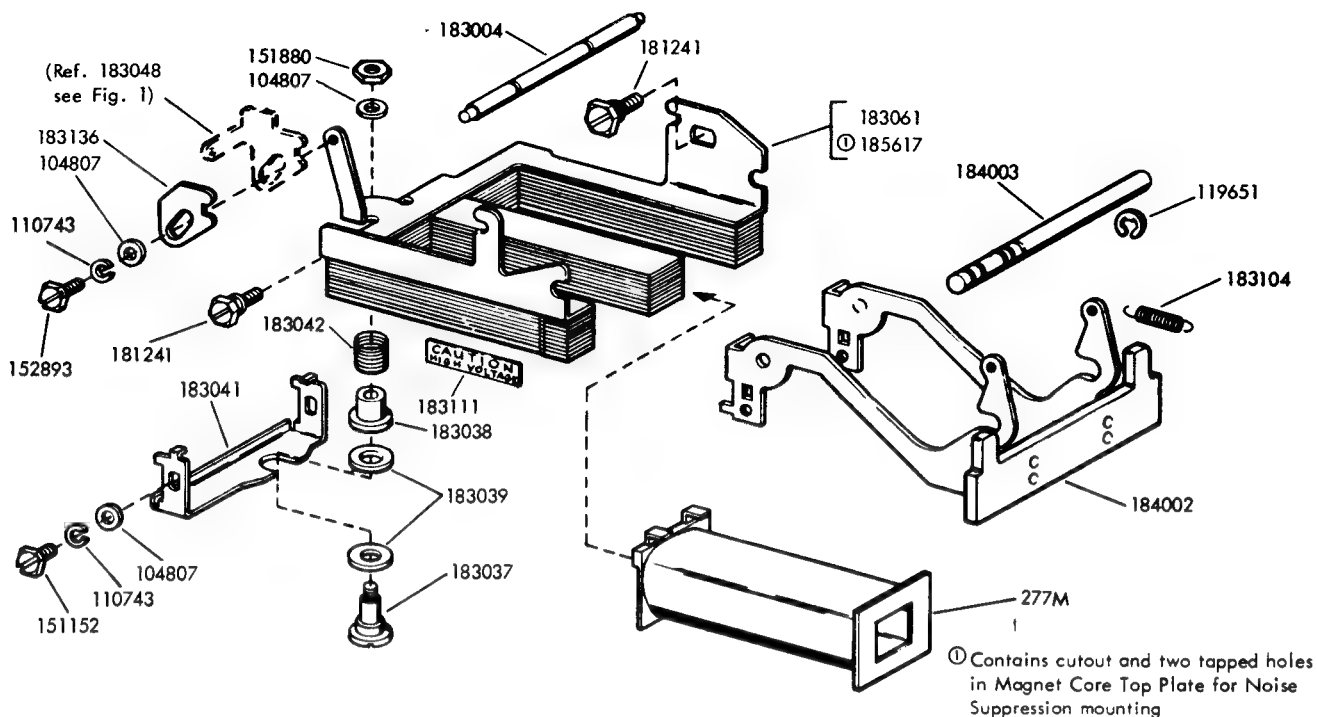


FIGURE 2. TAPE FEED MAGNET

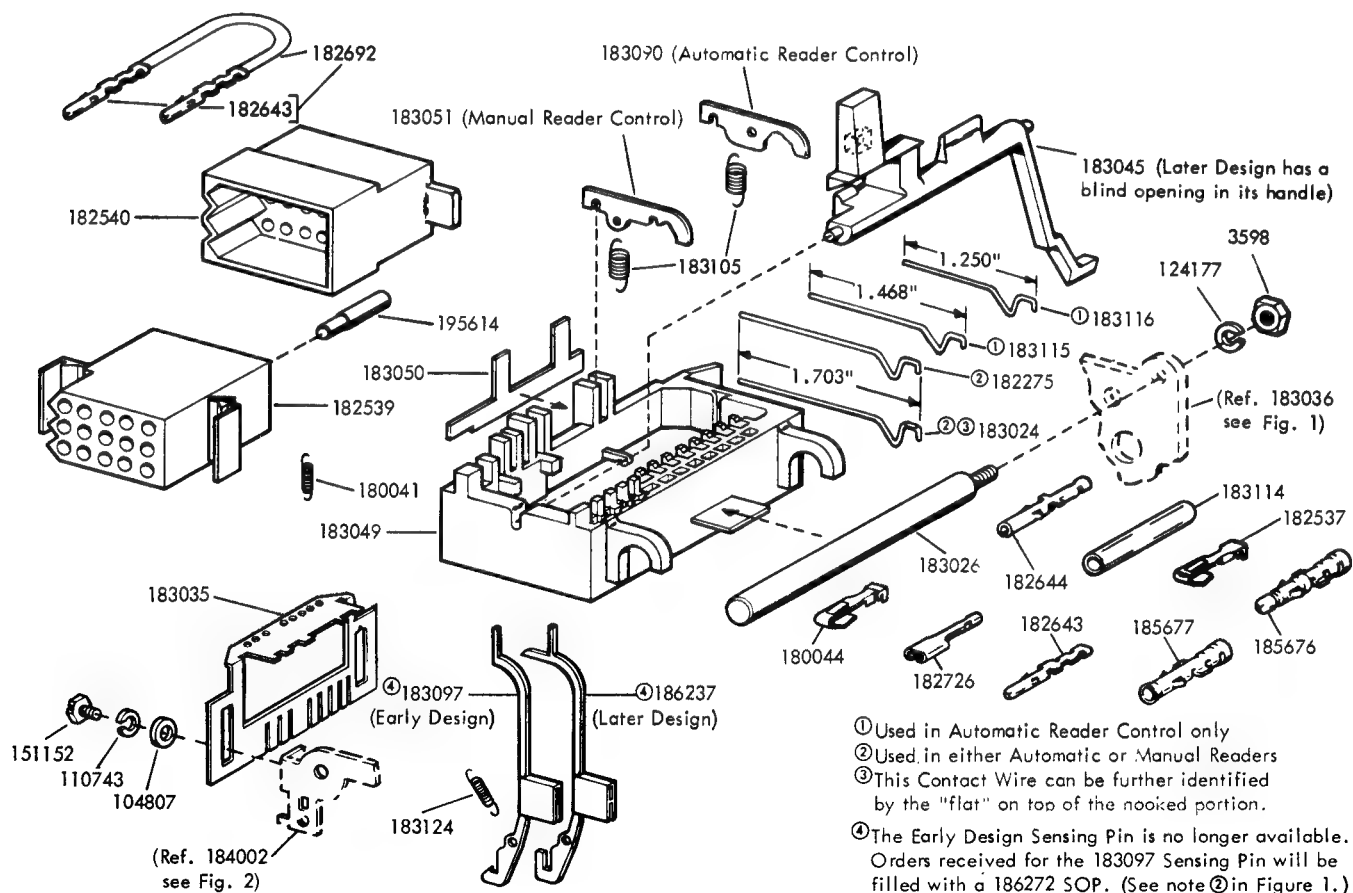


FIGURE 3. CONTACT BLOCK

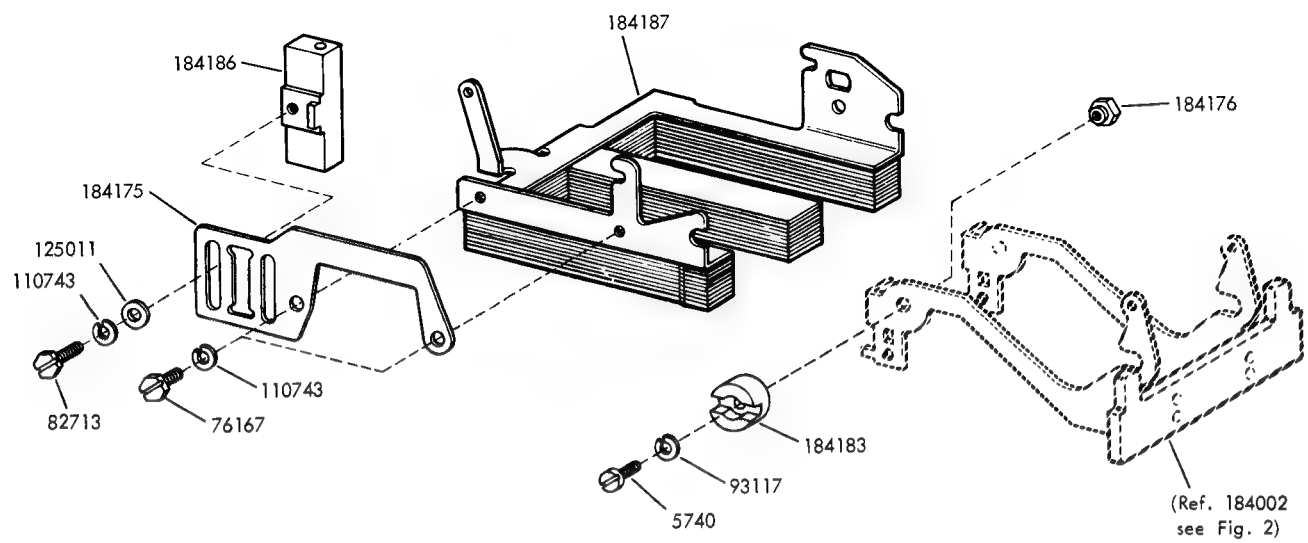


FIGURE 4. REED SWITCH AND MAGNET CORE

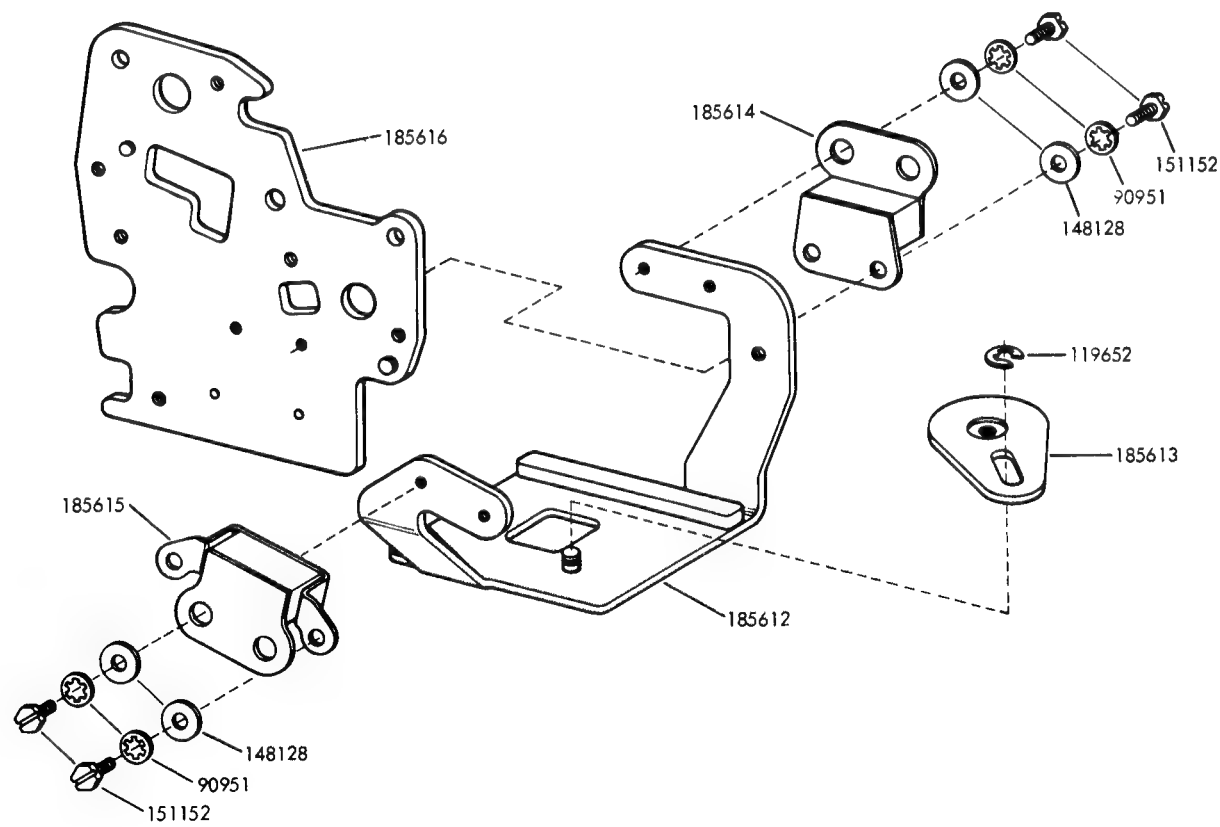


FIGURE 5. VIBRATION MOUNTING

NUMERICAL INDEX

| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|-------------|--|-------------|------------------------------|-------------|-----------------------------|
| 277M | Coil, Magnet 3 | 182540 | Connector, 15 Pt Plug Type 3 | 183095 | Stud, Tape Guide 2 |
| 3598 | Nut, 6-40 Hex 2,3 | | | 183097 | Pin, Sensing 3 |
| 5740 | Screw, 2-56 x 1/4 Fil 4 | 182643 | Terminal, Plug Type 3 | 183104 | Spring 3 |
| 42661 | Spring 2 | 182644 | Terminal, Receptacle Type 3 | 183105 | Spring 3 |
| 76167 | Screw, 4-40 x 3/16 Hex 4 | | | 183106 | Spring 2 |
| 82713 | Screw, 4-40 x 9/32 Hex 4 | 182692 | Jumper, 2-1/4" Orange 3 | 183111 | Label 3 |
| 90517 | Spring 2 | 182726 | Terminal, Receptacle Type 3 | 183112 | Screw, 4-40 x 9/16 Fil 2 |
| 90951 | Lockwasher 4 | | | 183114 | Sleeve, Insulating 3 |
| 93117 | Lockwasher 4 | 182851 | Spacer, .062" Thk 2 | 183115 | Wire, Contact 3 |
| 104807 | Washer, Flat 3 | 183004 | Post, Spring 3 | 183116 | Wire, Contact 3 |
| 110743 | Lockwasher 2,3,4 | 183011 | Pawl, Feed 2 | 183117 | Screw, 10-32 x 5/8 Hex 2 |
| 111410 | Washer, Flat 2 | 183015 | Lever, Detent 2 | | |
| 114107 | Spring 2 | 183016 | Pawl, Blocking 2 | 183118 | Plate, Clamp 2 |
| 119649 | Ring, Retaining 2 | 183020 | Bracket, Blocking Pawl 2 | 183124 | Spring 3 |
| 119651 | Ring, Retaining 2,3 | 183023 | Bracket, Detent 2 | 183133 | Bracket 2 |
| 119652 | Ring, Retaining 2,4 | 183024 | Wire, Contact 3 | 183134 | Base 2 |
| 121244 | Clamp, 1/4 ID Cable 2 | 183025 | Bracket 2 | 183136 | Plate 3 |
| 121246 | Clamp, 3/8 ID Cable 2 | 183026 | Post, Contact Block 3 | 183138 | Modification Kit 2 |
| 124177 | Lockwasher 2,3 | 183027 | Shaft, Feed Wheel 2 | 184002 | Armature 2,3,4 |
| 125011 | Washer, Flat 4 | 183029 | Latch, Spring 2 | 184003 | Shaft, Armature 3 |
| 125015 | Washer, Flat 2 | 183032 | Lid, Tape 2 | 184101 | Plate, Identification 2 |
| 148128 | Washer, Flat 4 | 183033 | Bail, Tight Tape 2 | 184104 | Plate, Identification 2 |
| 151152 | Screw, 4-40 x 3/16 Hex 3,4 | 183034 | Lever, Tight Tape 2 | 184175 | Bracket 4 |
| | | 183035 | Guide, Sensing Pin 3 | 184176 | Nut, 2-56 Shoulder Hex 4 |
| 151880 | Nut, 4-40 Hex 2,3 | 183036 | Backplate 2,3 | | |
| 152893 | Screw, 4-40 x 1/4 Hex 3 | 183037 | Screw, 4-40 Shoulder 3 | 184183 | Magnet 4 |
| 158148 | Washer, Felt 2 | 183038 | Bushing, Upstop 3 | 184186 | Switch, Reed 4 |
| 172993 | Spring 2 | 183039 | Buffer, Upstop 3 | 184187 | Core, Magnet 4 |
| 173974 | Screw, 10-32 x 5/16 Hex 2 | 183041 | Bracket, Upstop 3 | 185612 | Bracket 4 |
| 180041 | Spring 3 | 183042 | Spring, Compression 3 | 185613 | Plate, Nut 4 |
| 180044 | Terminal, Tab Type 3 | 183044 | Pin, Tape Out 2 | 185614 | Mount, Left Vibration 4 |
| 180902 | Jumper, 3-1/2" Braided 2 | 183045 | Lever, Start-Stop 3 | 185615 | Mount, Right Vibration 4 |
| 181240 | Screw w/Lockwasher, 6-40 x 3/16 Hex 2 | 183048 | Plate, Top 2,3 | 185616 | Plate 4 |
| 181241 | Screw w/Lockwasher, 6-40 x 1/4 Hex 2,3 | 183049 | Block, Contact 3 | 185617 | Core, Magnet 3 |
| 181242 | Screw w/Lockwasher, 6-40 x 5/16 Hex 2 | 183050 | Bar, Common 3 | 185676 | Terminal, Plug Type 3 |
| | | 183051 | Lever, Detent 3 | 185677 | Terminal, Receptacle Type 3 |
| 181991 | Plate, Identification 2 | 183061 | Core, Magnet 3 | | |
| 182251 | Plate, Identification 2 | 183064 | Insulator, Tape Out Pin 2 | 186235 | Plate, Top 2 |
| 182275 | Wire, Contact 3 | 183070 | Grommet, Rubber 2 | 186237 | Pin, Sensing 2,3 |
| 182537 | Terminal, Tab Type 3 | 183071 | Wheel, Feed 2 | 186272 | Set of Parts 2,3 |
| 182539 | Connector, 15 Pt Receptacle Type 3 | 183090 | Lever, Detent 3 | 195614 | Pin, Key 3 |
| | | 183091 | Post 2 | 320410 | Terminal, Spade Type 2 |
| | | 183092 | Cup 2 | | |

33 TAPE PUNCH (UPE)

PARTS

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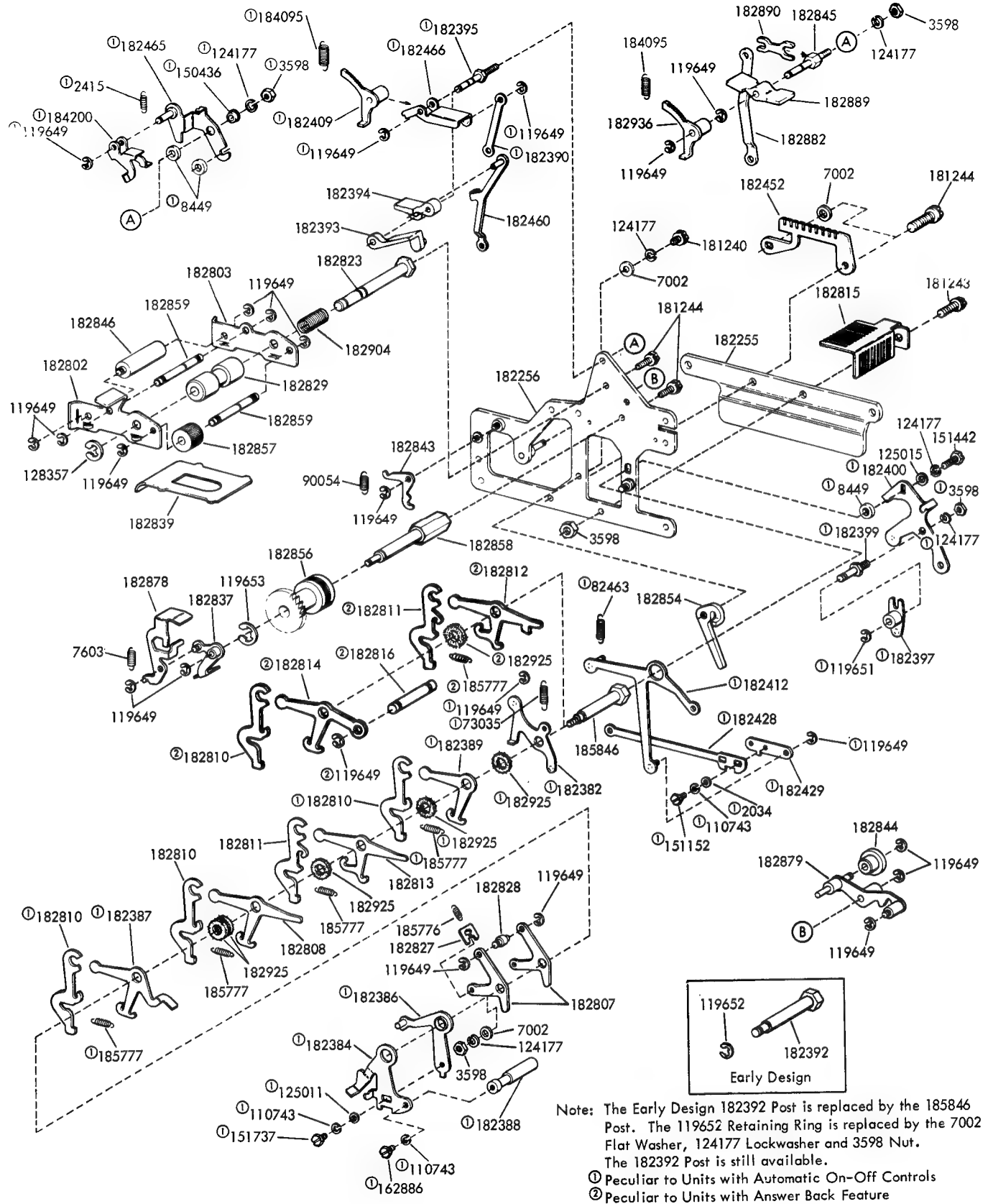
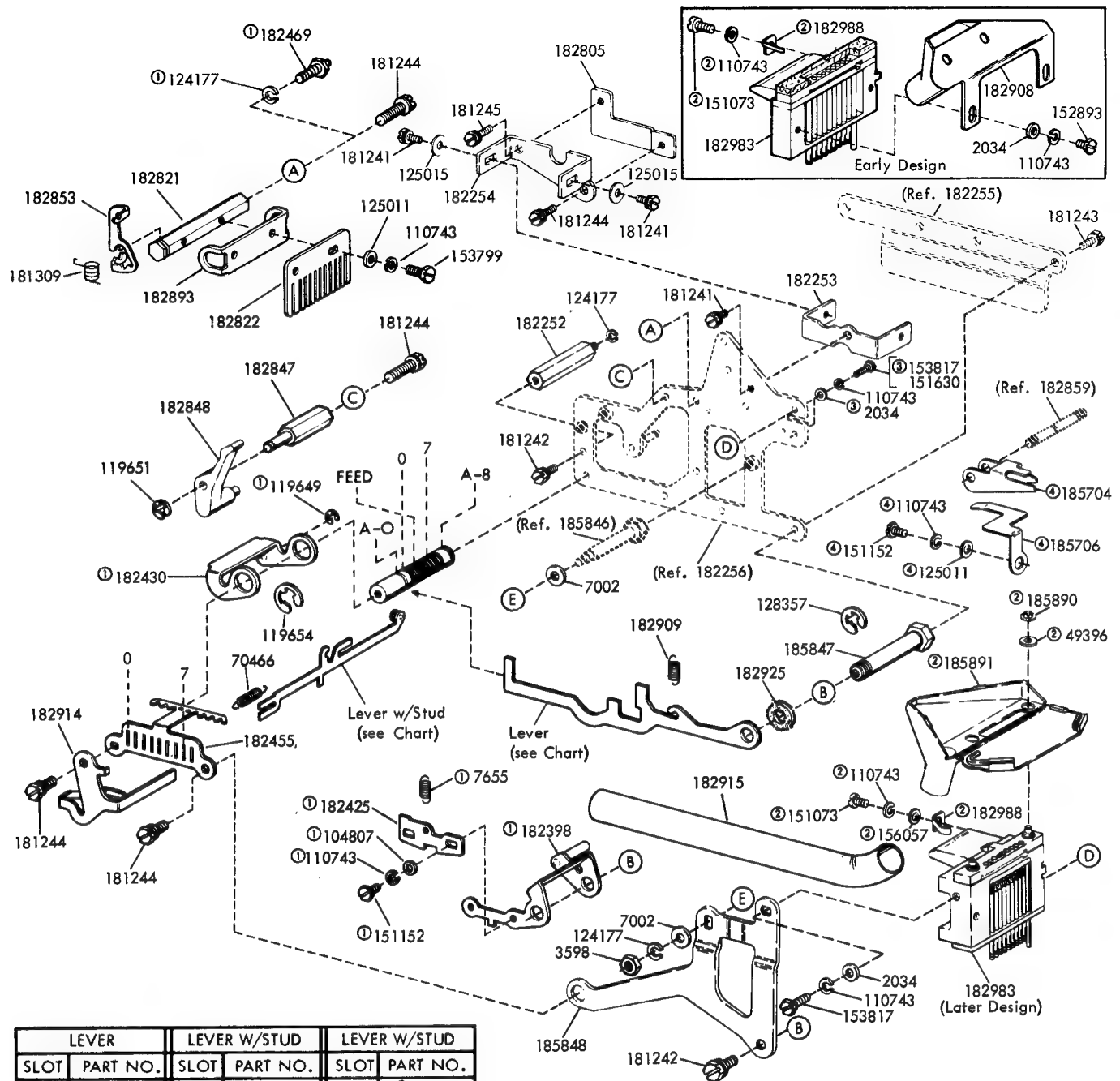


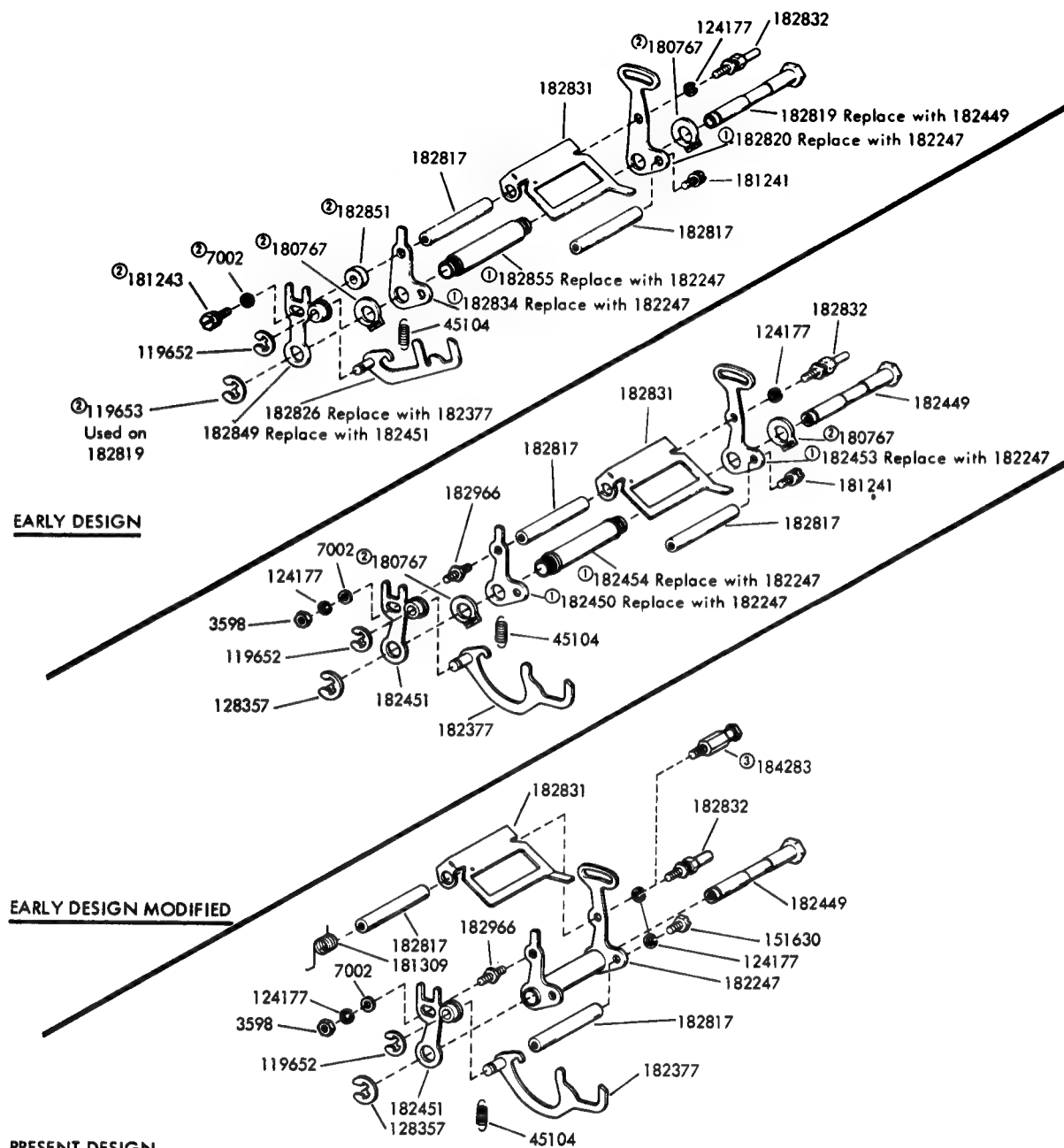
FIGURE 1. PUNCH MECHANISM



NOTE: Early and Later Design Punch Block Assemblies are interchangeable; however, the 182908 Chad Chute can only be used on the Early Design and the 185891 can only be used on the Later Design.

- ① Peculiar to units with Automatic On-Off Controls
- ② Supplied with 182983
- ③ Peculiar to units with Manual On-Off Controls
- ④ 185705 Modification Kit to provide a guide for Fan Fold Tape

FIGURE 2. PUNCH MECHANISM (Continued)



- ① Must be replaced with 182247 Sleeve w/Plates, 181309 Spring and 128357 Ring, Retaining (3598, 124177, 7002 and 182966 may also be ordered to update entire Power Bail Mechanism)
 ② Use only with Earlier Design Mechanisms
 ③ Peculiar to units with automatic ON-OFF controls

FIGURE 3. POWER BAIL MECHANISMS

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| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|-------------|--|-------------|---|-------------|-----------------------------|
| 2034 | Washer, Flat 2,3 | 181244 | Screw w/Lockwasher, 6-40 x 7/16 Hex 2,3 | 182454 | Sleeve 4 |
| 2415 | Spring 2 | 181245 | Screw w/Lockwasher, 6-40 x 1/2 Hex 3 | 182455 | Bracket 3 |
| 3598 | Nut, 6-40 Hex 2,4 | 181309 | Spring, Torsion 3,4 | 182457 | Lever 3 |
| 7002 | Washer, Flat 2,3,4 | 182247 | Sleeve w/Plates 4 | 182460 | Link 2 |
| 7603 | Spring 2 | 182252 | Post 3 | 182465 | Bracket 2 |
| 7655 | Spring 3 | 182253 | Bracket 3 | 182466 | Lever w/Post 2 |
| 8449 | Spacer, 0.094" Thk 2 | 182254 | Bracket 3 | 182469 | Post, Spring 3 |
| 45104 | Spring 4 | 182255 | Spacer 2,3 | 182802 | Bracket 2 |
| 49396 | Washer, Flat 3 | 182256 | Plate 2,3 | 182803 | Plate 2 |
| 70466 | Spring 3 | 182377 | Pawl w/Stud 4 | 182805 | Plate 3 |
| 73035 | Spring 2 | 182382 | Lever 2 | 182807 | Lever 2 |
| 82463 | Spring 2 | 182384 | Lever 2 | 182808 | Lever 2 |
| 90054 | Spring 2 | 182386 | Lever 2 | 182810 | Pawl 2 |
| 104807 | Washer, Flat 3 | 182387 | Lever 2 | 182811 | Pawl 2 |
| 110743 | Lockwasher 2,3 | 182388 | Post 2 | 182812 | Lever 2 |
| 119649 | Ring, Retaining 2,3 | 182389 | Lever 2 | 182813 | Lever 2 |
| 119651 | Ring, Retaining 2,3 | 182390 | Link 2 | 182814 | Lever 2 |
| 119652 | Ring, Retaining 2,4 | 182392 | Post 2 | 182815 | Bracket 2 |
| 119653 | Ring, Retaining 2,4 | 182393 | Lever 2 | 182816 | Shaft 2 |
| 119654 | Ring, Retaining 3 | 182394 | Lever 2 | 182817 | Post 4 |
| 124177 | Lockwasher 2,3,4 | 182395 | Post 2 | 182819 | Post 4 |
| 125011 | Washer, Flat 2,3 | 182397 | Lever 2 | 182820 | Plate 4 |
| 125015 | Washer, Flat 2,3 | 182398 | Bail w/Post 3 | 182821 | Post 3 |
| 128357 | Ring, Retaining 2,3,4 | 182399 | Post, Eccentric 2 | 182822 | Plate 3 |
| 150436 | Bushing 2 | 182400 | Plate w/Stud 2 | 182823 | Post 2 |
| 151073 | Screw, 4-40 x 5/32 Fil 3 | 182402 | Lever w/Stud 3 | 182826 | Pawl w/Stud 4 |
| 151152 | Screw, 4-40 x 3/16 Hex 2,3 | 182403 | Lever w/Stud 3 | 182827 | Plate 2 |
| 151442 | Screw, 6-40 x 1/2 Hex 2 | 182404 | Lever w/Stud 3 | 182828 | Roller 2 |
| 151630 | Screw, 6-40 x 1/4 Hex 3,4 | 182406 | Lever w/Stud 3 | 182829 | Sleeve 2 |
| 151737 | Screw, 4-40 x 11/64 Hex 2 | 182409 | Arm w/Hub 2 | 182831 | Bail 4 |
| 152893 | Screw, 4-40 x 1/4 Hex 3 | 182412 | Lever w/Stud 2 | 182832 | Post 4 |
| 153817 | Screw, 4-40 x 3/8 Hex 3 | 182425 | Arm 3 | 182834 | Plate 4 |
| 153799 | Screw, 4-40 x 21/64 Hex 3 | 182428 | Link 2 | 182837 | Lever w/Post 2 |
| 156057 | Washer, Flat 3 | 182429 | Plate 2 | 182839 | Plate 2 |
| 162886 | Screw, 4-40 x 7/32 Hex 2 | 182430 | Bail w/Stud 3 | 182843 | Lever 2 |
| 180767 | Ring, Retaining 4 | 182431 | Lever 3 | 182844 | Roller 2 |
| 181240 | Screw w/Lockwasher, 6-40 x 3/16 Hex 2 | 182432 | Lever 3 | 182845 | Post 2 |
| 181241 | Screw w/Lockwasher, 6-40 x 1/4 Hex 3,4 | 182433 | Lever 3 | 182846 | Roller 2 |
| 181242 | Screw w/Lockwasher, 6-40 x 5/16 Hex 3 | 182434 | Lever 3 | 182847 | Post 3 |
| 181243 | Screw w/Lockwasher, 6-40 x 3/8 Hex 2,3,4 | 182435 | Lever 3 | 182848 | Arm 3 |
| | | 182437 | Lever 3 | 182849 | Plate w/Bushing 4 |
| | | 182438 | Lever 3 | 182851 | Spacer, 0.062" Thk 4 |
| | | 182439 | Lever 3 | 182853 | Hook 3 |
| | | 182449 | Post 4 | 182854 | Bracket 2 |
| | | 182450 | Plate 4 | 182855 | Sleeve 4 |
| | | 182451 | Plate w/Bushing 4 | 182856 | Wheel, 24T 2 |
| | | 182452 | Guideplate 2 | 182857 | Roller 2 |
| | | 182453 | Plate 4 | 182858 | Post 2 |
| | | | | 182859 | Post 2,3 |
| | | | | 182861 | Lever w/Stud 3 |

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| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|----------------|--------------------------------|----------------|--------------------------------|----------------|--------------------------------|
| 182862 | Lever w/Stud 3 | 182890 | Plate 2 | 184095 | Spring 2 |
| 182864 | Lever w/Stud 3 | 182893 | Bracket 3 | 184200 | Bail 2 |
| 182872 | Lever 3 | 182904 | Spring, Compression 2 | 184283 | Guidepost 4 |
| 182878 | Lever 2 | 182908 | Chute, Chad 3 | 185704 | Depressor, Tape 3 |
| 182879 | Lever 2 | 182909 | Spring 3 | 185705 | Modification Kit 3 |
| 182882 | Link 2 | 182914 | Bracket 3 | 185706 | Bracket 3 |
| 182884 | Lever w/Stud 3 | 182915 | Extension 3 | 185776 | Spring 2 |
| 182885 | Lever w/Stud 3 | 182925 | Washer, Flat 2,3 | 185777 | Spring 2 |
| 182886 | Lever w/Stud 3 | 182936 | Arm w/Bushing 2 | 185846 | Post 2,3 |
| 182887 | Lever w/Stud 3 | 182966 | Stud 4 | 185847 | Post 3 |
| 182888 | Lever w/Stud 3 | 182983 | Block Assembly, Punch 3 | 185848 | Plate 3 |
| 182889 | Lever 2 | 182988 | Spring, Punch Block 3 | 185890 | Pushnut 3 |
| | | | | 185891 | Chute, Chad 3 |

33 COVER AND TABLE

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| 2 | Punch Cover and Base | 3 |
| 3 | Reader Cover and Base | 4 |
| 4 | Faceplates | 5 |
| 5 | Cover and Tape Storage Bin | 6 |
| 6 | Cabinet | 7 |
| 7 | Lid and Copyholder | 8 |
| 8 | 183976 Adjustable Copyholder Assembly | 9 |
| 9 | 182134, 182149, 184194 and 186480 Power Pack Assemblies | 10 |
| 10 | 181720 Power Pack Assembly | 10 |
| 11 | 184074 Outlet Box Assembly | 11 |
| 12 | 183859 Modification Kit to Provide Paper Supply and Accumulating Shelf | 12 |
| 13 | 186031 Rectifier Assembly | 13 |
| 14 | 186226 Modification Kit to Provide Mobility for Cabinet | 14 |
| | Numerical Index | 15 |

**Denotes a painted part.
HF-Light Olive Gray Smooth Vinyl

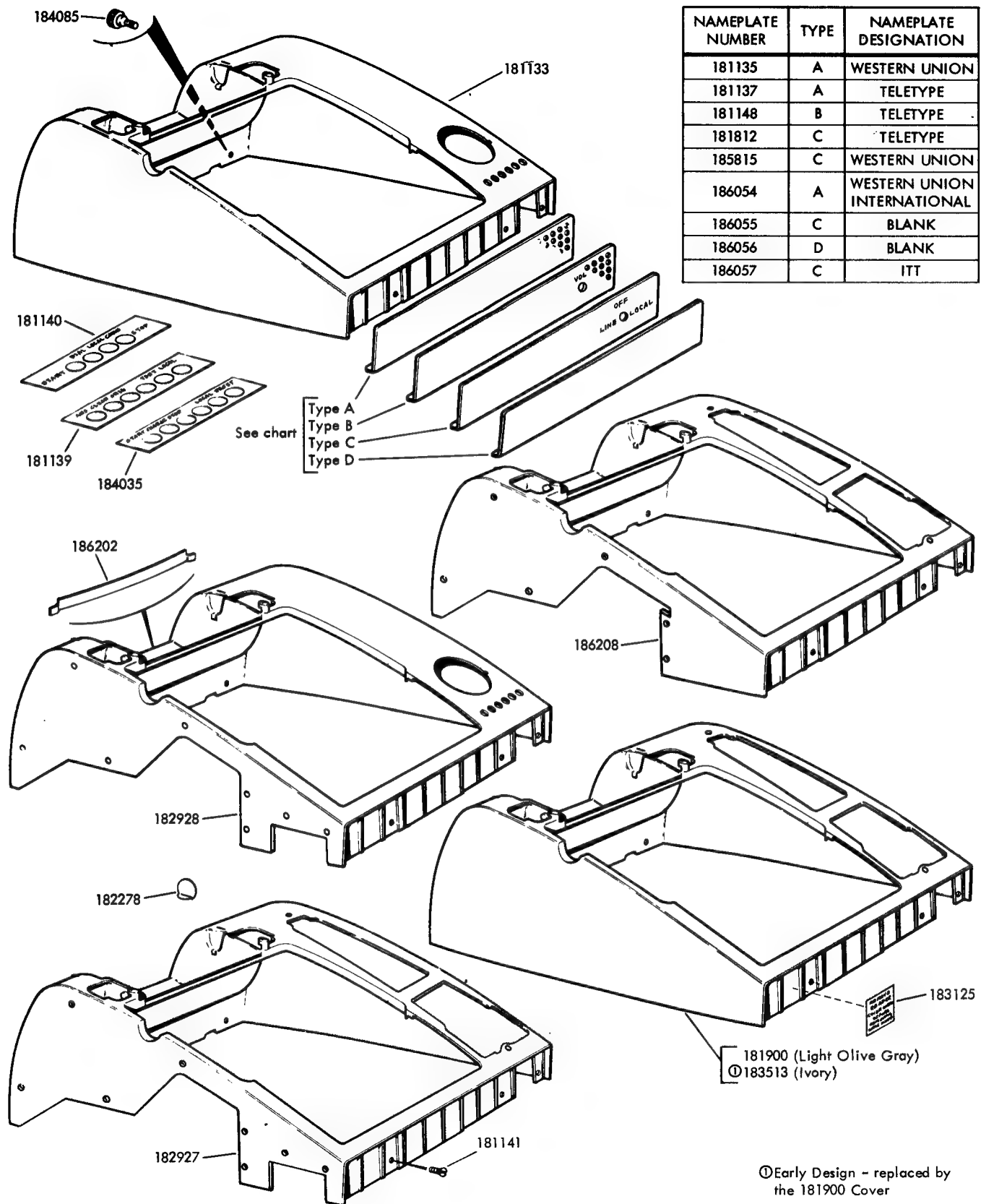
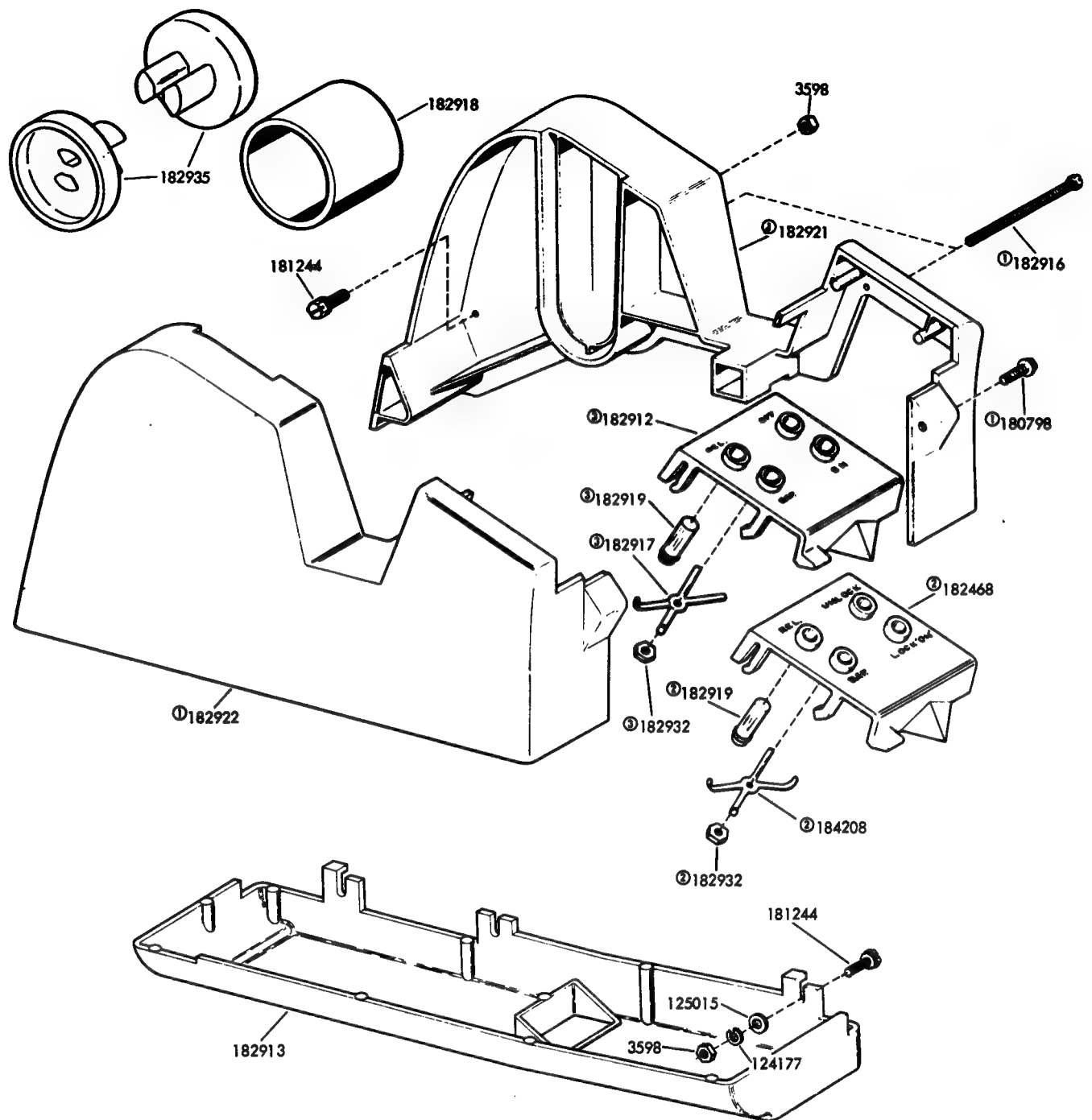
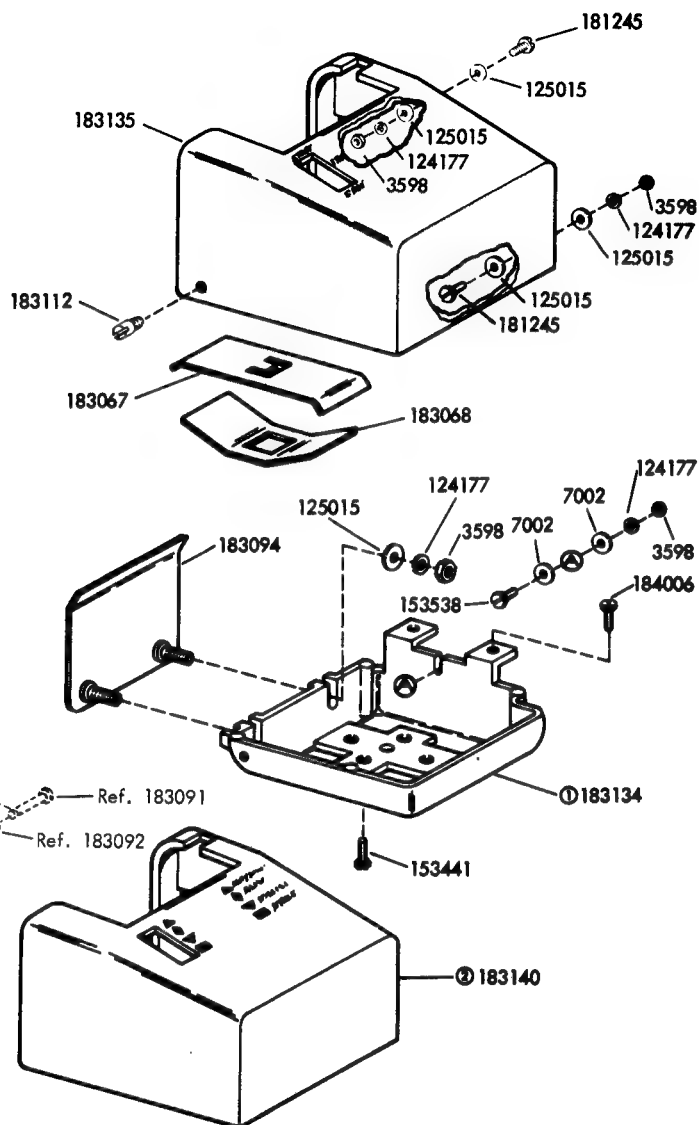
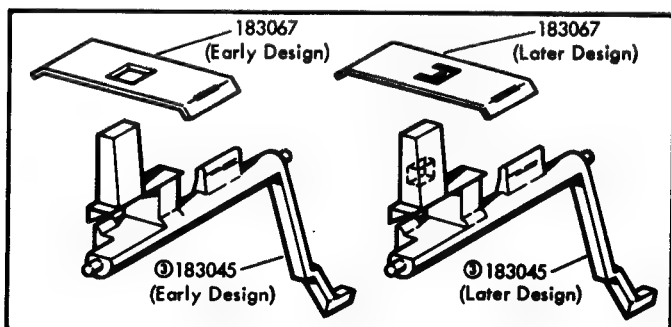
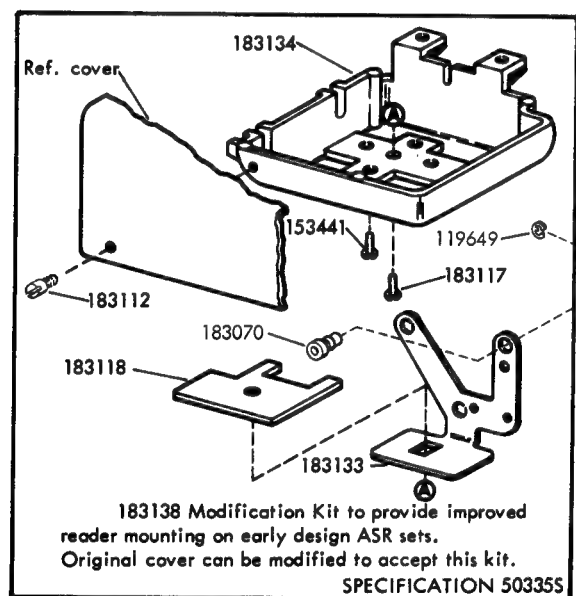
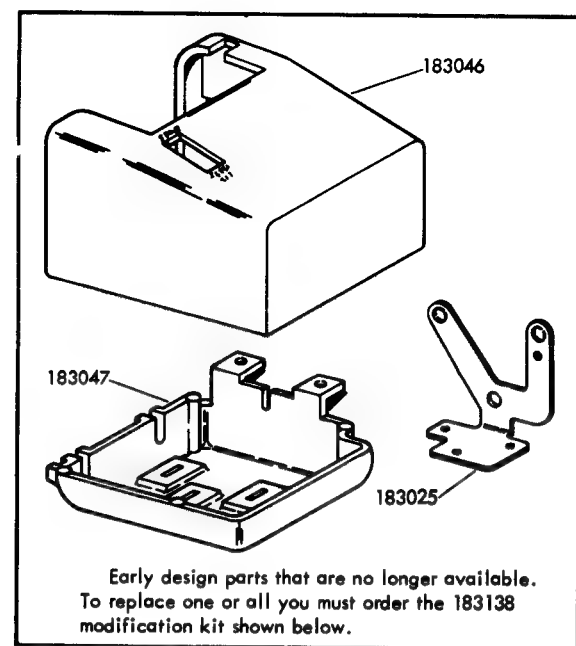


FIGURE 1. PRINTER COVERS



- ① 182926 Cover Assembly
- ② 184206 Lid Assembly (for automatic On-Off control)
- ③ 182109 Lid Assembly (for manual On-Off control)

FIGURE 2. PUNCH COVER AND BASE



① A new 185700 laminated sheet steel base has been designed to replace the three individual castings mounting the typing unit with motor, keyboard and associated call control unit, the perforator, and the reader. However, the 183134 base (shown on this figure) is still available for replacement purposes

② Automatic reader control cover.

③ The 183067 shield and the 183045 start & stop lever have been redesigned but retain their original numbers. The new style lever can be used with the old style shield but the new style shield must be used with the new style lever

FIGURE 3. READER COVER AND BASE

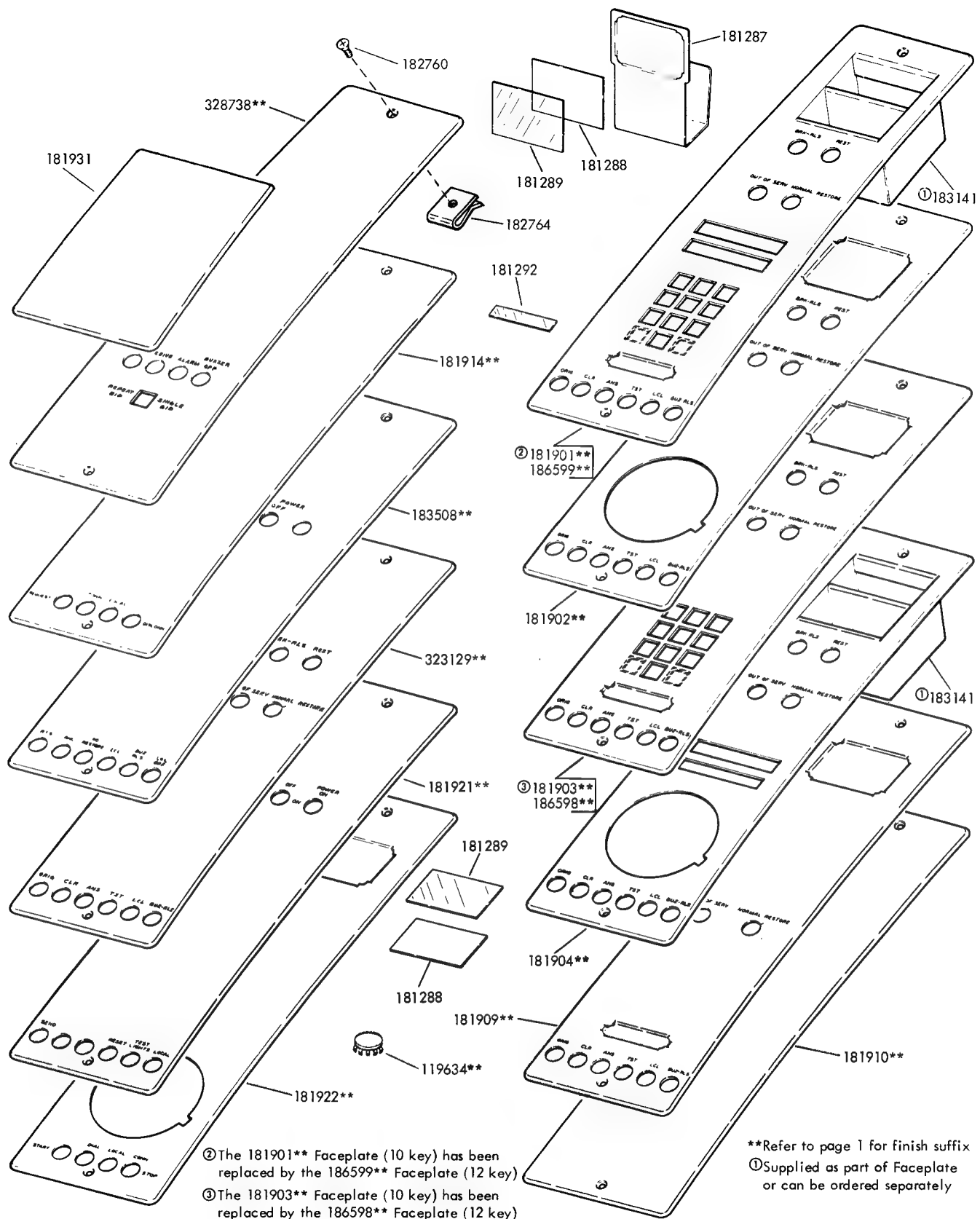


FIGURE 4. FACEPLATES

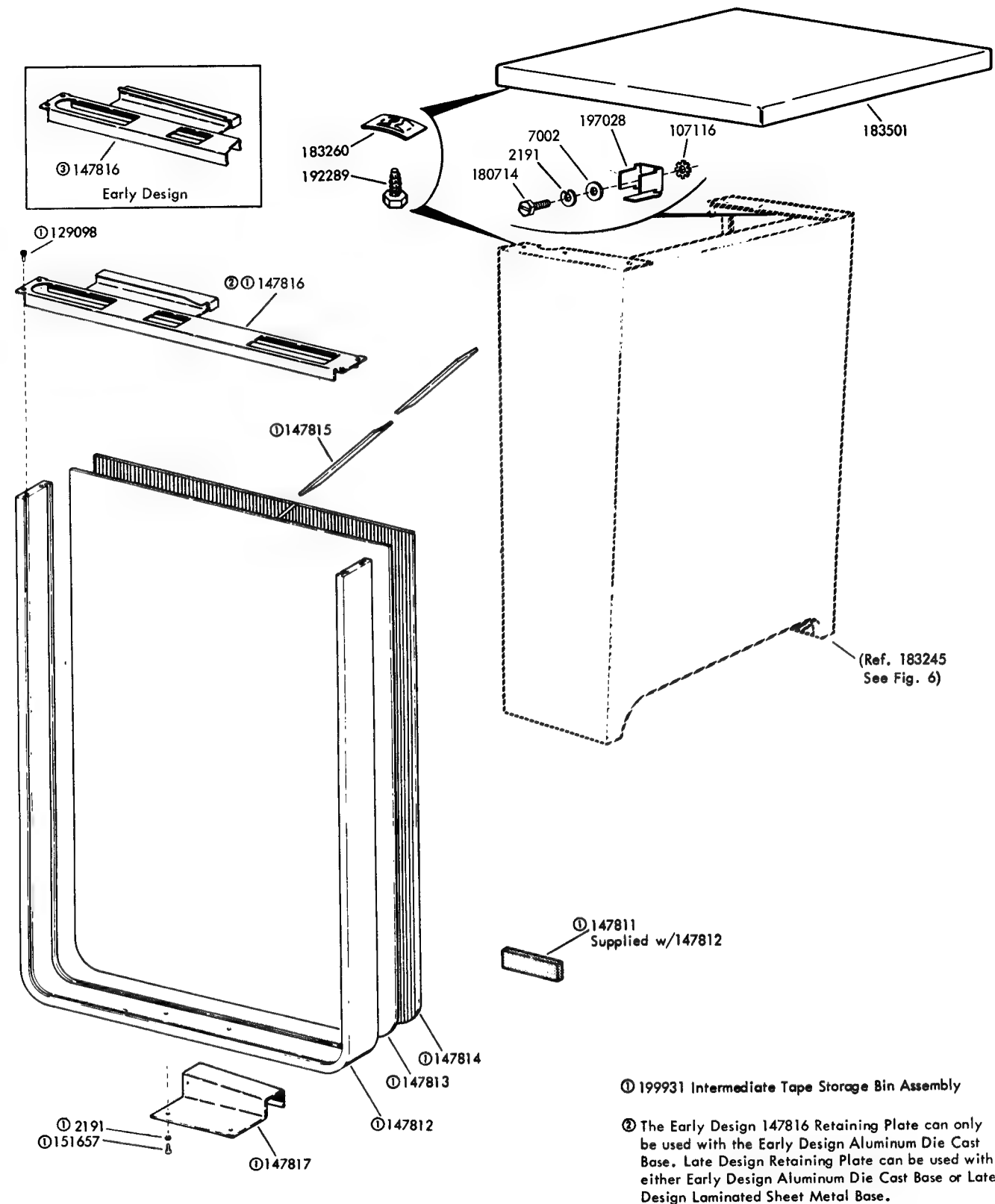
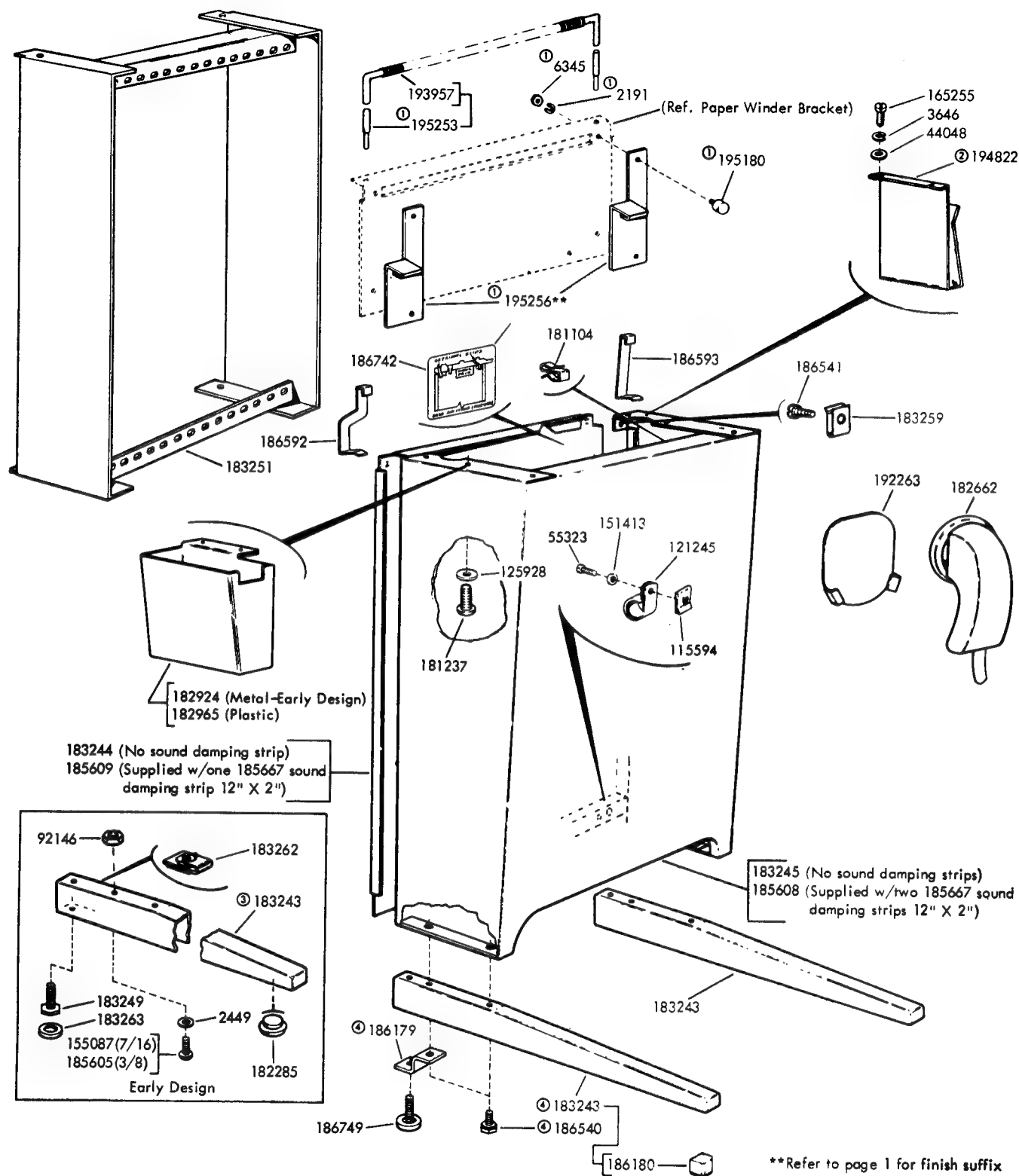


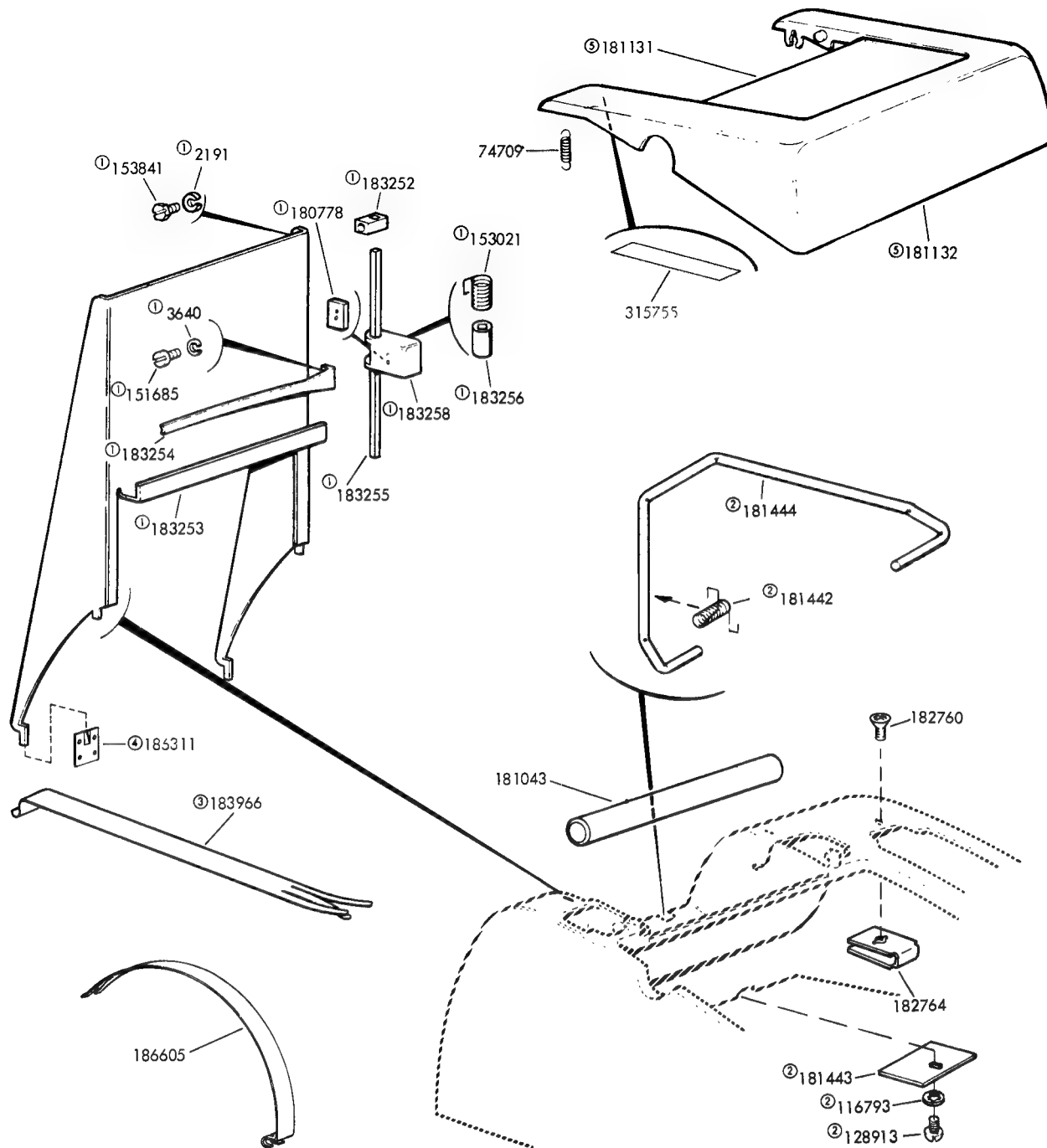
FIGURE 5. COVER AND TAPE STORAGE BIN



- ① 195259** Modification Kit to add Paper Winder to Cabinet
 ② The 194822 Directory Holder has been changed by including two 6 inch strips of double sided adhesive backed tape, eliminating the need for mounting hardware.

- ③ The Early Design 183243 Foot w/Brackets is no longer available. When replacing an Early Design Foot w/Brackets, order the 186203 Set of Parts.
 ④ 186203 Set of Parts to provide replacement Foot w/Bumper

FIGURE 6. CABINET



① 182036 Copyholder Assembly

② Used with Sets having Low Paper Alarm

③ No longer available. Order 186605 Paper Deflector

④ 186312 SOP to Provide Cover Repair Bracket for Copyholder

⑤ The 181131 Lid Window has been redesigned by adding nine holes to enable heat staking to the Lid rather than cementing as on the Early Design. Early and Late Design Lids w/ Window are interchangeable. If however, a Late Design Lid w/Window needs a replacement Window, a 181132 Lid w/Window must be ordered.

FIGURE 7. LID AND COPYHOLDER

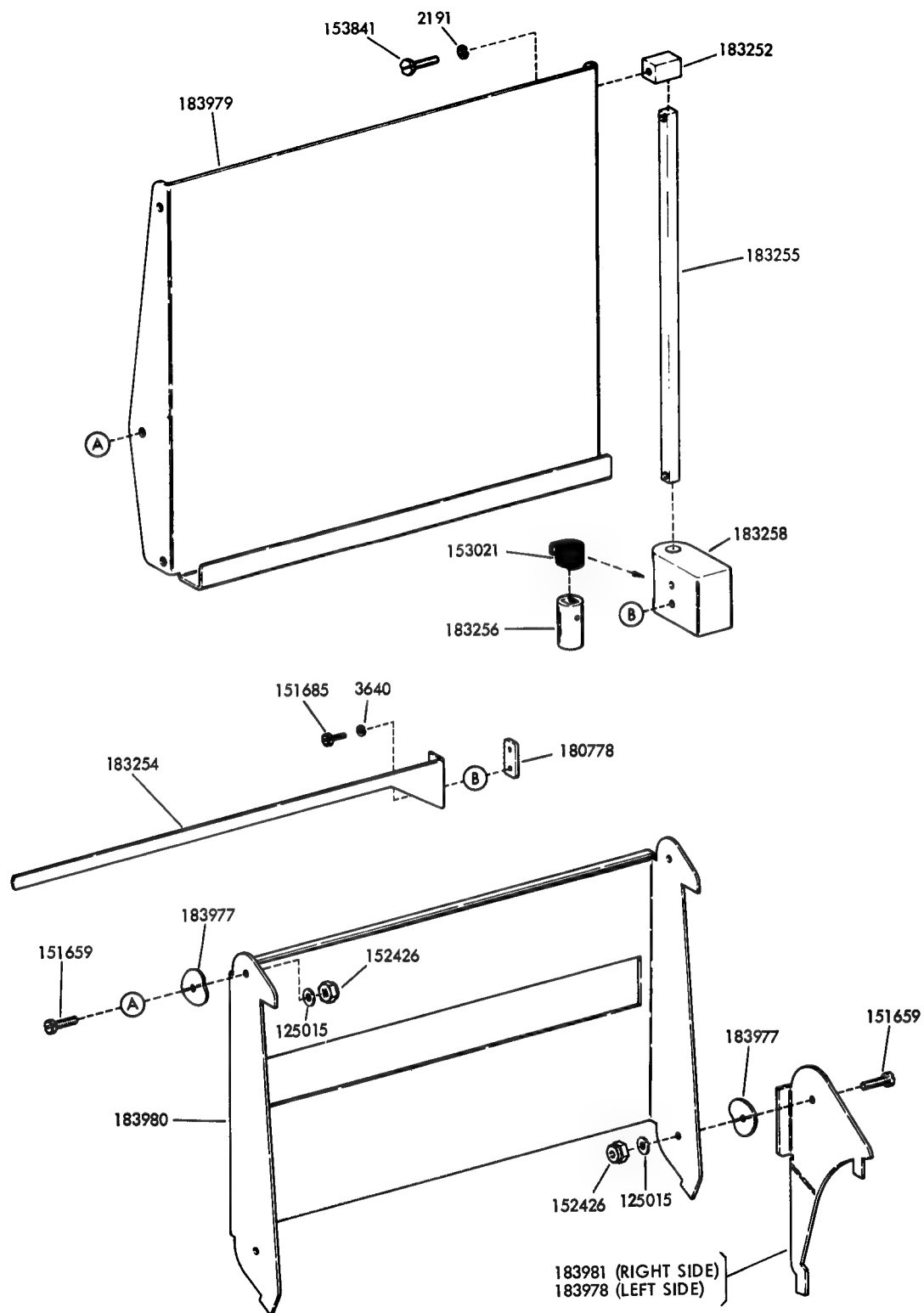


FIGURE 8. 183976 ADJUSTABLE COPYHOLDER ASSEMBLY

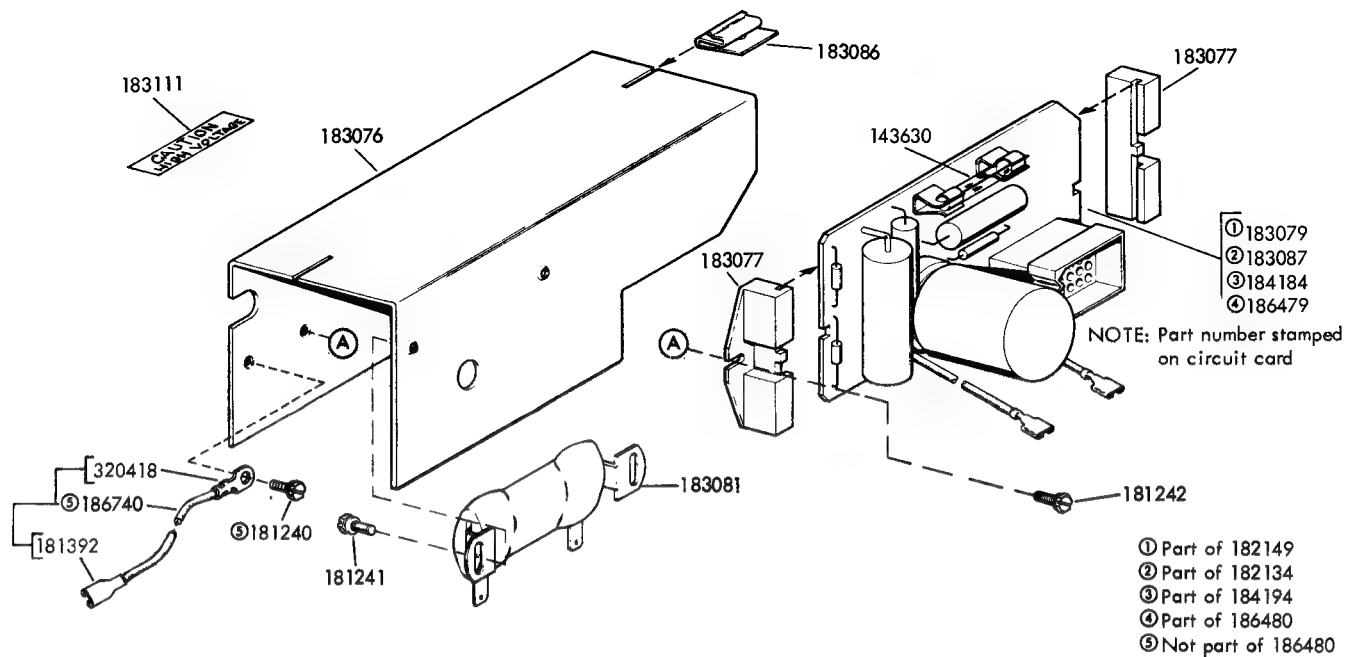


FIGURE 9. 182134, 182149, 184194 AND 186480 POWER PACK ASSEMBLIES

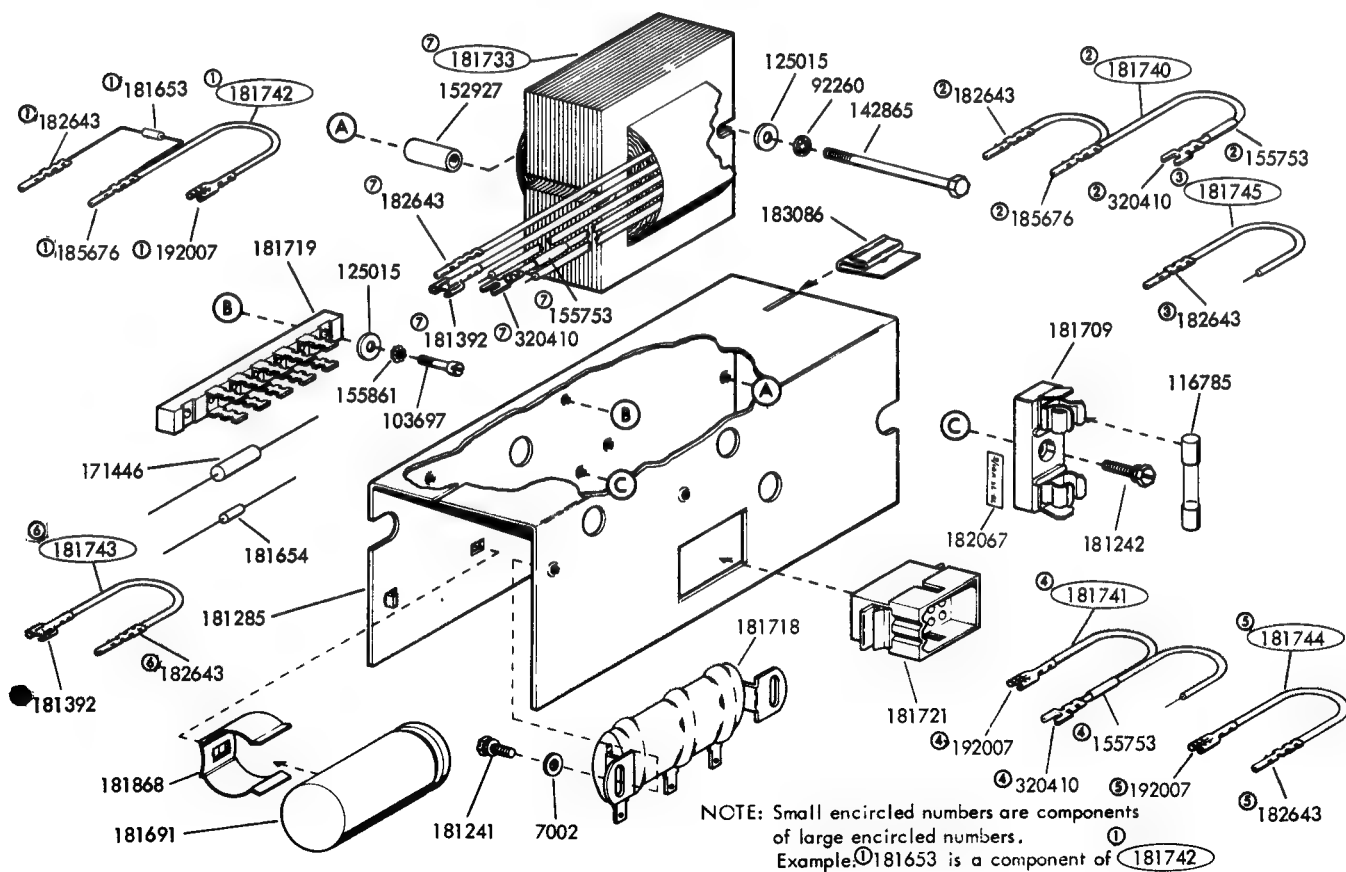


FIGURE 10. 181720 POWER PACK ASSEMBLY

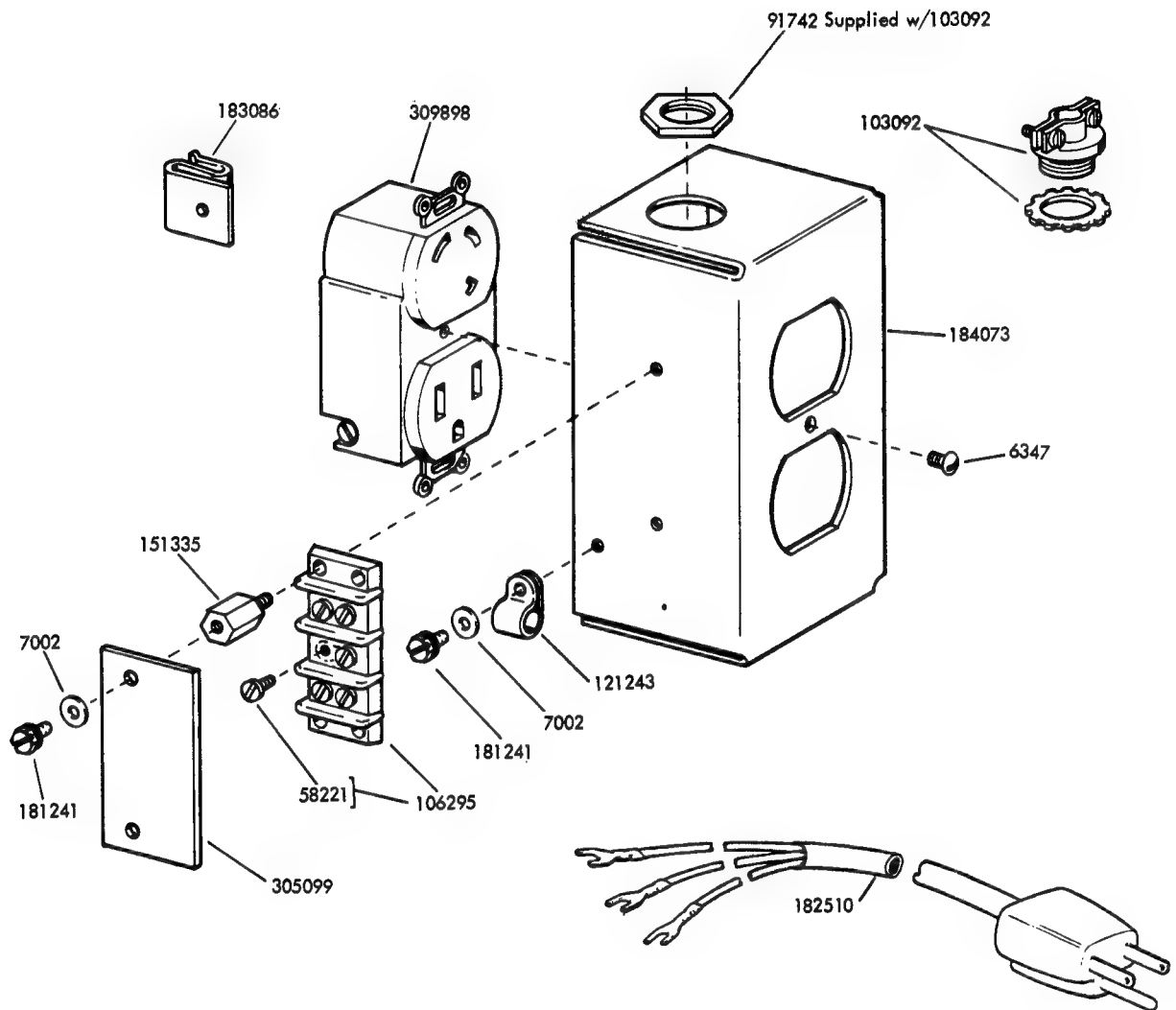
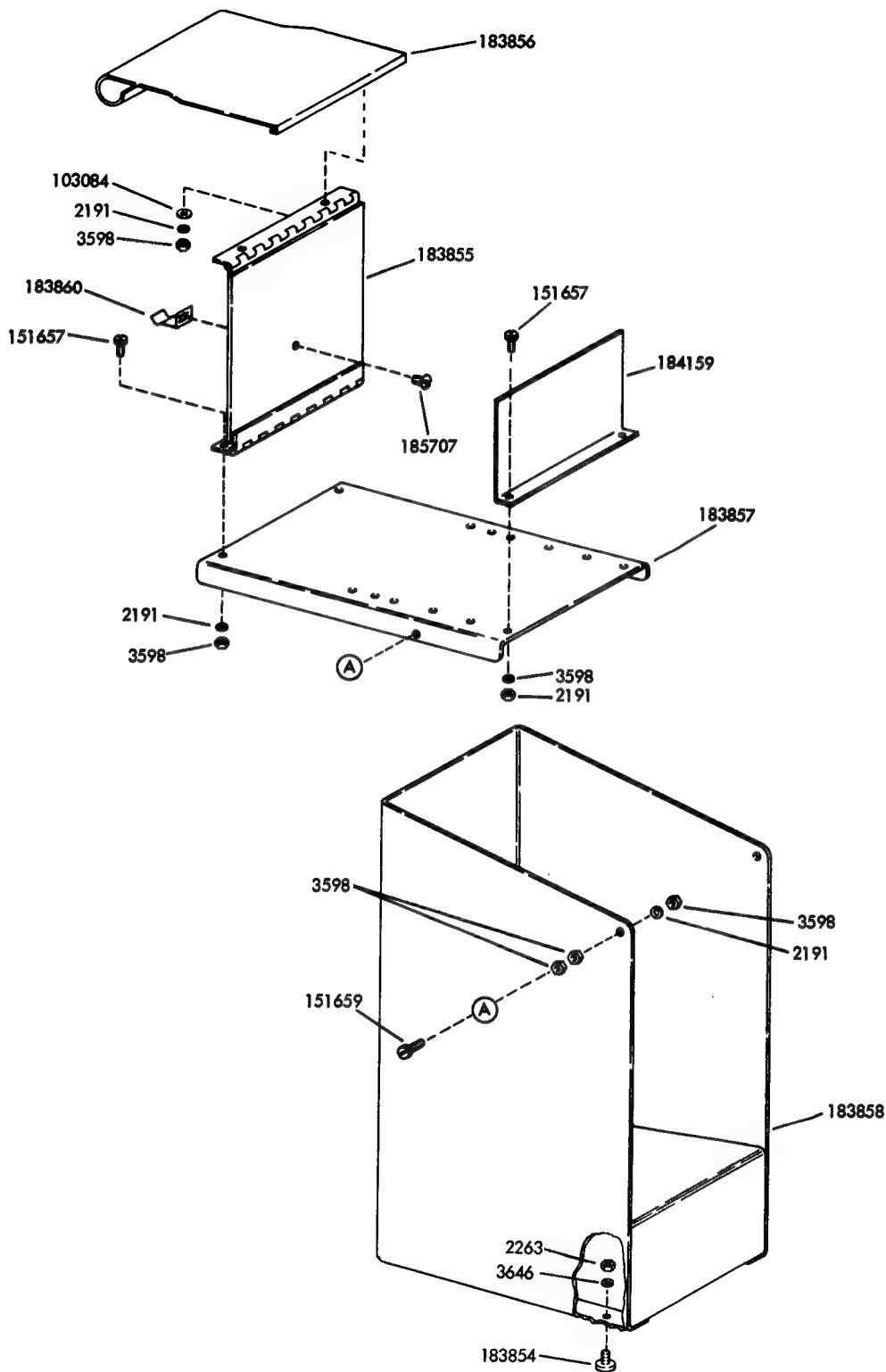


FIGURE 11. 184074 OUTLET BOX ASSEMBLY



Specification 504335

FIGURE 12. 183859 MODIFICATION KIT TO PROVIDE PAPER SUPPLY AND ACCUMULATING SHELF

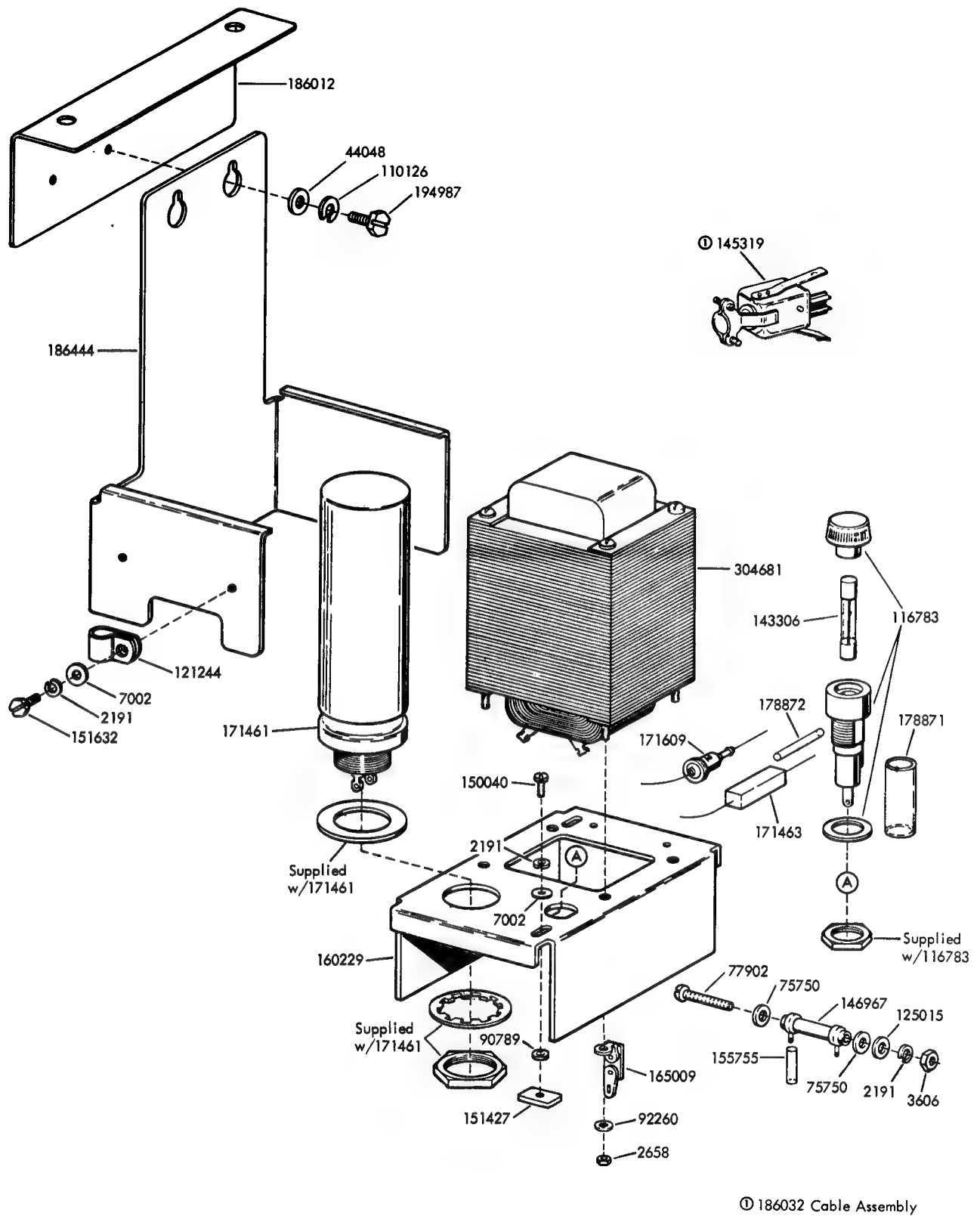
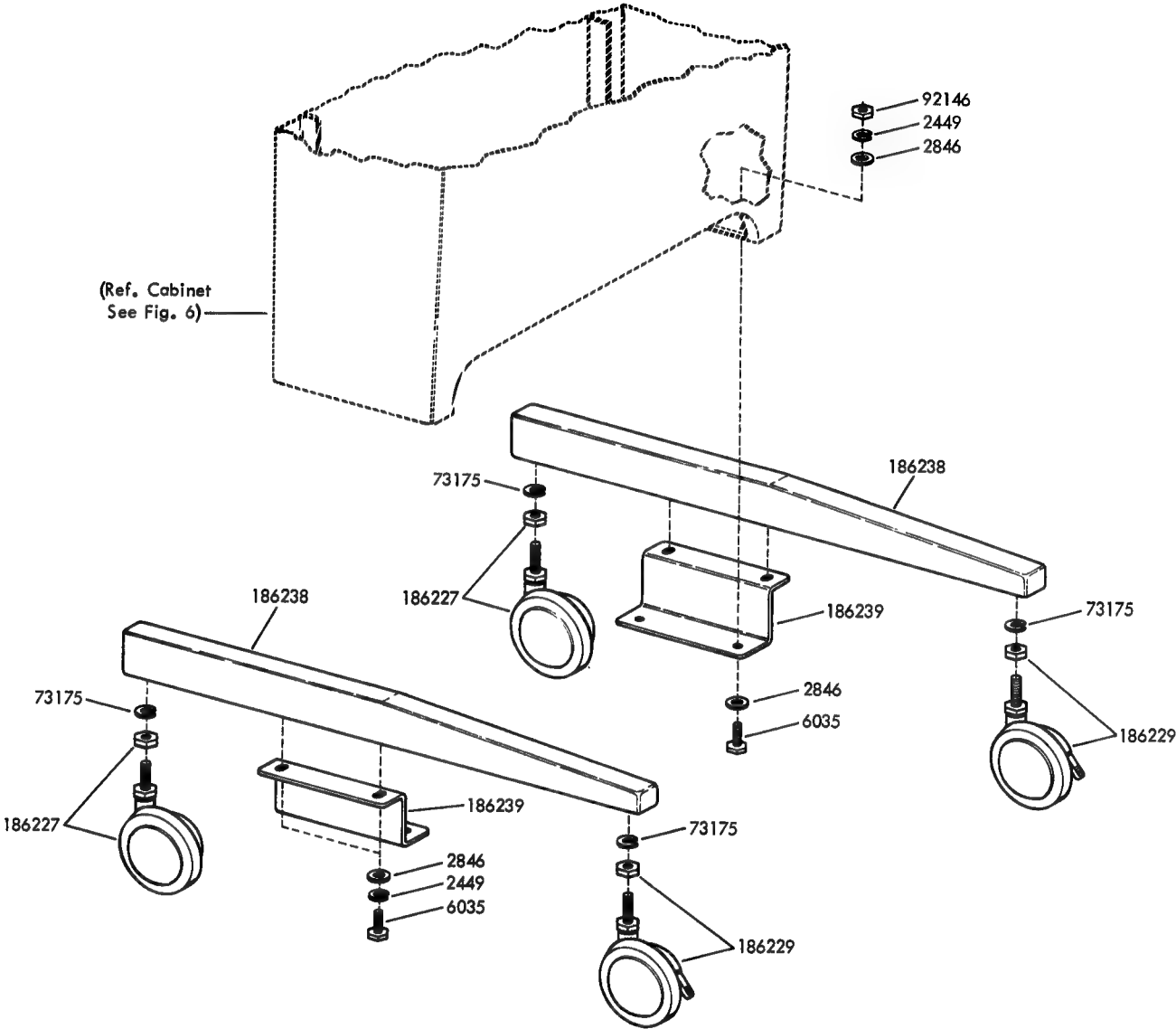


FIGURE 13. 186031 RECTIFIER ASSEMBLY



Specification 50626S

FIGURE 14. 186226 MODIFICATION KIT TO PROVIDE MOBILITY FOR CABINET

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| Part Number | Description and Page Number | Part Number | Description and Page Number | Part Number | Description and Page Number |
|-------------|-----------------------------|-------------|---|-------------|--|
| 2191 | Lockwasher 6,7,8,9,12,13 | 143630 | Fuse, .75 Amp 10 | 181043 | Spindle, Paper Roll 8 |
| 2263 | Nut, 8-32 Hex 12 | 145319 | Receptacle, 4 Pt Plug 13 | 181104 | Clip, Cable 7 |
| 2449 | Lockwasher 7,14 | 146967 | Resistor, 750 Ohm 13 | 181131 | Window, Lid 8 |
| 2658 | Nut, 6-32 Hex 13 | 147811 | Spacer, .250" Thk 6 | 181132 | Lid w/Window 8 |
| 2846 | Washer, Flat 14 | 147812 | Frame, Tape Bin 6 | 181133 | Cover 2 |
| 3598 | Nut, 6-40 Hex 3,4,12 | 147813 | Window, Left Side 6 | 181135 | Nameplate 2 |
| 3606 | Nut, 6-40 Hex 13 | 147814 | Window, Right Side 6 | 181137 | Nameplate 2 |
| 3640 | Lockwasher 8,9 | 147815 | Divider, Tape Bin 6 | 181139 | Label, Designation (Bell) 2 |
| 3646 | Lockwasher 7,12 | 147816 | Plate, Retaining 6 | 181140 | Label, Designation (W.U.) 2 |
| 6035 | Screw, 1/4-20 x 5/8 Hex 14 | 147817 | Guide, Tape Bin 6 | 181141 | Screw, 8-32 Spl 2 |
| 6345 | Nut, 6-32 Hex 7 | 150040 | Screw, 6-40 5/8 Fil 13 | 181148 | Nameplate 2 |
| 6347 | Screw, 6-32 x 3/8 Rd 11 | 151335 | Stud 11 | 181237 | Screw, 1/4-14 Self-Tapping 7 |
| 7002 | Washer, Flat 4,6,10,11,13 | 151413 | Washer, Flat 7 | 181240 | Screw w/Lockwasher, 6-40 x 3/16 Hex 10 |
| 44048 | Washer, Flat 13 | 151427 | Plate, Clamp 13 | 181241 | Screw w/Lockwasher, 6-40 x 1/4 Hex 10,11 |
| 55323 | Screw, 8-32 x 1/2 Rd 7 | 151632 | Screw, 6-40 x 3/8 Hex 13 | 181242 | Screw w/Lockwasher, 6-40 x 5/16 Hex 10 |
| 58221 | Screw, 6-32 x 1/4 Fil 11 | 151657 | Screw, 6-40 x 1/4 Fil 6,12 | 181244 | Screw w/Lockwasher, 6-40 x 7/16 Hex 3 |
| 73175 | Lockwasher 14 | 151659 | Screw, 6-40 x 1/2 Fil 9,12 | 181245 | Screw w/Lockwasher, 6-40 x 1/2 Hex 4 |
| 74709 | Spring 8 | 151685 | Screw, 4-40 x 5/16 Fil 8,9 | 181285 | Cover, Mounting 10 |
| 75750 | Washer, Insulating 13 | 152426 | Nut, 6-40 Self-Locking 9 | 181287 | Holder, Card 5 |
| 77902 | Screw, 6-40 x 2-3/8 Rd 13 | 152927 | Bushing 10 | 181288 | Label, White 5 |
| 90789 | Washer, Flat 13 | 153021 | Spring, Torsion 8,9 | 181289 | Window, Plastic 5 |
| 91742 | Nut, Lock 11 | 153441 | Screw, 10-32 x 7/16 Hex 4 | 181292 | Window, Plastic 5 |
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